

AD-A118 509 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
YOUNGSTOWN MAP, OHIO. REVISED UNIFORM SUMMARY OF SURFACE WEATHER--ETC (11)  
MAY 82

UNCLASSIFIED USAFETAC/DS-82/034

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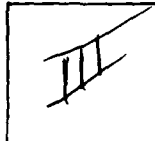
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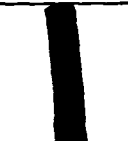
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REVISED UNIFORM SUMMARY OF  
SURFACE WEATHER OBSERVATIONS

14 JUN 1982

YOUNGSTOWN MAP OH  
N 41 16 W 080 40 FLD ELEV 1196 FT YNG

MSC #725250

PARTS A-F  
POR FROM HOURLY OBS: JAN 73 - DEC 81  
POR FROM DAILY OBS: JAN 48 - DEC 81  
TIME CONVERSION GMT TO LST: -5

JUN 16 1982

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| 4. TITLE (and Subtitle)<br>Revised Uniform Summary of Surface Weather<br>Observations (RUSSWO)-<br>YOUNGSTOWN MAP, OHIO  |                       | 5. TYPE OF REPORT & PERIOD COVERED<br>Final rept.              |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
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| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)  |                       | 12. REPORT DATE<br>10 MAY 1982                                 |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
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| 18. SUPPLEMENTARY NOTES  |                       |  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 19. KEY WORDS (Continue on reverse side if necessary and identify by block number)<br><table border="0"> <tr> <td>*RUSSWO</td> <td>Daily temperatures</td> <td>Atmospheric pressure</td> </tr> <tr> <td>Snowfall</td> <td>Extreme snow depth</td> <td>Extreme surface winds</td> </tr> <tr> <td>Climatology</td> <td>Sea-level pressure</td> <td>Psychrometric summary</td> </tr> <tr> <td>Surface Winds</td> <td>Extreme temperature</td> <td>Ceiling versus visibility</td> </tr> <tr> <td>Relative Humidity</td> <td>*Climatological data</td> <td>(over)</td> </tr> </table>   |                       |  | *RUSSWO | Daily temperatures | Atmospheric pressure | Snowfall | Extreme snow depth | Extreme surface winds | Climatology | Sea-level pressure | Psychrometric summary | Surface Winds | Extreme temperature | Ceiling versus visibility | Relative Humidity | *Climatological data | (over) |
| *RUSSWO  | Daily temperatures    | Atmospheric pressure   |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| Snowfall   | Extreme snow depth    | Extreme surface winds  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| Climatology  | Sea-level pressure    | Psychrometric summary  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| Surface Winds  | Extreme temperature   | Ceiling versus visibility                                      |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| Relative Humidity  | *Climatological data  | (over)   |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |
| 20. ABSTRACT (Continue on reverse side if necessary and identify by block number)<br>This report is a six-part statistical summary of surface weather observations for<br>YOUNGSTOWN MAP, OHIO<br>It contains the following parts: (A) Weather Conditions; Atmospheric Phenomena;<br>(B) Precipitation, Snowfall and Snow Depth (daily amounts and extreme values);<br>(C) Surface winds; (D) Ceiling versus Visibility; Sky Cover; (E) Psychrometric<br>Summaries (daily maximum and minimum temperatures, extreme maximum and minimum<br>temperatures, psychrometric summary of wet-bulb temperature depression versus<br>dry-bulb temperature, means and standard deviations of dry-bulb, wet-bulb (over) |                       |  |         |                    |                      |          |                    |                       |             |                    |                       |               |                     |                           |                   |                      |        |

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19. Percentage frequency of distribution tables  
Dry-bulb temperature versus wet-bulb temperature  
Cumulative percentage frequency of distribution tables

OHIO

YOUNGSTOWN MAP, OHIO

20. and dew point temperatures and relative humidity); and (F) Pressure Summary (means, standard, deviations, and observation counts of station pressure and sea-level pressure). Data in this report are presented in tabular form, in most cases in percentage frequency of occurrence or cumulative percentage frequency of occurring tables.

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The number that identifies the station in this summary is an AWS Master Station Catalog number. This number is comprised of the WMO number with the addition of a suffix zero; or, in cases where there is no designated WMO number, a 5-digit number created in agreement with WMO rules, plus a sixth qualifying digit. These numbers (also referred to as DATSAV or USAFETAC numbers) uniquely identify each of more than 15,000 reporting stations around the world. This is the provenance of the number (e.g., MSC 999999) which will appear on future OL-A standard products.

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## REVISED UNIFORM SUMMARY OF SURFACE WEATHER OBSERVATIONS

### HOURLY OBSERVATIONS

Hourly observations are defined as those record or record-special observations recorded at scheduled hourly intervals.

### DAILY OBSERVATIONS

Daily observations are selected from all data recorded on reporting forms and combined into summary of the day observations. (Selected from record-special, locally summary of the day, remarks, etc.)

### DESCRIPTION OF SUMMARIES

Following each section is a brief description of the data comprising each part of the Revised Uniform Summary of Surface Weather Observations and the manner of presentation. Observations are prepared from hourly and daily observations recorded by stations operating the following procedures and some foreign stations with similar reporting practices.

In all, otherwise noted the following summaries are included for this station:

#### PART A WEATHER CONDITIONS

ATMOSPHERIC PHENOMENA

#### PART B PRECIPITATION

SNOWFALL

SNOW DEPTH

#### PART C SURFACE WINDS

#### PART D CEILING VERSUS VISIBILITY

SKYCOVER

#### PART E DAILY MAX, MIN, & MEAN TEMP

EXTREME MAX & MIN TEMP

PSYCHROMETRIC DRY VS WET BULB

MEAN & STD DEV  
(DRY BULB, WET BULB, & DEW POINT)

RELATIVE HUMIDITY

#### PART F STATION PRESSURE

SEA LEVEL PRESSURE

### STANDARD 3-HOUR GROUPS

All summaries requiring diurnal variations are summarized in eight 3-hour periods corresponding to the following sets of hourly observations: 00-0300, 0300-0600, 0600-0900, 0900-1200, 1200-1500, 1500-1800, 1800-2100, 2100-2400 hours local standard time.

### MISSING HOUR GROUPS

Summary sheets are omitted when stations maintaining limited observing schedules did not report certain three-hour periods for any particular month during the available period of record. Such missing sheets are listed below, and are applicable to all summaries prepared from hourly observations.

JANUARY \_\_\_\_\_

APRIL \_\_\_\_\_

JULY \_\_\_\_\_

OCTOBER \_\_\_\_\_

FEBRUARY \_\_\_\_\_

MAY \_\_\_\_\_

AUGUST \_\_\_\_\_

NOVEMBER \_\_\_\_\_

MARCH \_\_\_\_\_

JUNE \_\_\_\_\_

SEPTEMBER \_\_\_\_\_

DECEMBER \_\_\_\_\_

| STATION NO OR SUMMARY<br>725250              |                              | STATION NAME<br>YOUNGSTOWN MAP, OH            |                     | LATITUDE<br>N 41 16 |                 | LONGITUDE<br>W 080 40                               |                     | FIELD ELEV (FT)<br>1196 |             | CALL SIGN<br>YNG |  | WMO NUMBER<br>72525 |  |
|--|------------------------------|---|---------------------|---------------------|-----------------|---|---------------------|-------------------------|-------------|------------------|--|---------------------|--|
| STATION LOCATION AND INSTRUMENTATION HISTORY |                              |   |                     |                     |                 |   |                     |                         |             |                  |  |                     |  |
| NUMBER OF LOCATION                           | GEOGRAPHICAL LOCATION & NAME | TYPE OF STATION                               | AT THIS LOCATION    |                     | LATITUDE        | LONGITUDE   | ELEVATION ABOVE MSL |                         | OBS PER DAY |                  |  |                     |  |
|  |                              |   | FROM                | TO                  |                 |   | FIELD (FT)          | MT. BARD.               |             |                  |  |                     |  |
| 1  | Youngstown MAP, Ohio         | CAA   | 13 Apr 42           | 9 Sep 43            | N 41 16         | W 080 40  | 1196ft              | 1199ft                  | 12          |                  |  |                     |  |
| 2  | Same                         | WBO   | 9 Sep 43            | 1 May 81            | Same            | Same  | Same                | Same                    | 24          |                  |  |                     |  |
|  |                              |   | 2 May 81            | Feb 82              | Same            | Same  | Same                | Same                    | 24          |                  |  |                     |  |
| # May 81... latest date NW Stn History       |                              |   |                     |                     |                 |   |                     |                         |             |                  |  |                     |  |
| NUMBER OF LOCATION                           | DATE OF CHANGE               | SURFACE WIND EQUIPMENT INFORMATION            |                     |                     |                 | REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE |                     |                         |             |                  |  |                     |  |
|  |                              | LOCATION                                      | TYPE OF TRANSMITTER | TYPE OF RECORDER    | HT ABOVE GROUND |   |                     |                         |             |                  |  |                     |  |
| 2  | 11 Aug 51                    | Located on Roof of Adm Bldg.                  | **                  | **                  | 62              | Earliest documented recorder sheet 11 Aug 51        |                     |                         |             |                  |  |                     |  |
|  | 1 Nov 58 to 1 May 81         | Located on field near runway                  | F-420-C             | Gust recorder       | 20              |   |                     |                         |             |                  |  |                     |  |
|  | 1 Sep 59                     | Located on field near runway wind transmitter | 3 CUP               |                     | **              | HYGROTHERMOMETER put in use                         |                     |                         |             |                  |  |                     |  |
|  |                              |   |                     |                     |                 | ** NOT DOCUMENTED                                   |                     |                         |             |                  |  |                     |  |

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CONTINUED ON REVERSE SIDE

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A

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from hourly observations, and is presented in two tables as follows:

1. By month and annual, all hours and years combined.
2. By month, all years combined, by standard 3-hour groups.

A percent value of ".0" in these tables indicates less than .05 percent, which is usually only one occurrence. The various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet (ice pellets) - Included are snow, snow pellets, sleet, snow grains, ice crystals, and ice pellets from Jan 68 and later. (Snow pellets also known as soft hail)

Hail - Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the percentages of the observations with precip.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources).

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Continued on Reverse

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision, below.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

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WEATHER SERVICE/MAC

## WEATHER CONDITIONS

STATION YOUNGSTOWN MAP OH 73-81 JAN  
STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS |
|--------|-----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|------------------------|
| JAN    | 0-02            |                    | 5.6                       | 1.1                               | 32.3                    |      | 39.1                        | 10.3 | 6.7                     | 3.2             |                        | 19.7                               | 823                    |
|        | 03-05           |                    | 5.0                       | 1.0                               | 34.5                    |      | 40.2                        | 12.0 | 7.5                     | 3.1             |                        | 22.1                               | 814                    |
|        | 06-08           |                    | 5.0                       | 1.1                               | 36.3                    |      | 42.7                        | 13.6 | 11.8                    | 3.4             |                        | 28.2                               | 825                    |
|        | 09-11           |                    | 5.4                       | 1.6                               | 36.4                    |      | 42.9                        | 18.9 | 18.2                    | 4.2             |                        | 40.6                               | 818                    |
|        | 12-14           |                    | 5.7                       | .7                                | 33.5                    |      | 40.8                        | 12.9 | 15.2                    | 4.9             |                        | 32.9                               | 823                    |
|        | 15-17           |                    | 5.6                       | .2                                | 31.3                    |      | 36.2                        | 9.9  | 10.7                    | 3.5             |                        | 24.1                               | 821                    |
|        | 18-20           |                    | 5.2                       | .4                                | 29.5                    |      | 35.1                        | 8.5  | 6.9                     | 2.9             |                        | 20.3                               | 827                    |
|        | 21-23           |                    | 6.1                       | 1.6                               | 31.5                    |      | 38.6                        | 8.5  | 9.1                     | 2.9             |                        | 19.4                               | 826                    |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                        |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                        |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                        |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                        |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                        |
| TOTALS |                 |                    | 5.7                       | 1.1                               | 33.1                    |      | 39.5                        | 11.8 | 10.9                    | 3.5             |                        | 25.9                               | 6577                   |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE



CLIMATE CLIMATOLOGY BRANCH  
 AFAC  
 WEATHER SERVICE/MAC

# WEATHER CONDITIONS

STATION FOUNDTOWN MAP OH

73-51

FEF

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
 CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST) | THUNDER-<br>STORMS | RAIN<br>AND OR<br>DRIZZLE | FREEZING<br>RAIN & / OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|----------------|--------------------|---------------------------|------------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| 1-10   |                | .1                 | 6.1                       | .5                                 | 25.7                    |      | 33.7                        | 10.3 | 3.7                     | 2.1             |                        | 15.4                               | 751                     |
| 11-11  |                | .1                 | 6.2                       | .5                                 | 25.1                    |      | 34.5                        | 13.7 | 5.6                     | 1.7             |                        | 18.7                               | 744                     |
| 12-12  |                |                    | 6.3                       | .9                                 | 24.5                    |      | 34.5                        | 15.6 | 3.3                     | .5              |                        | 23.7                               | 748                     |
| 1-11   |                |                    | 6.1                       | 1.1                                | 26.9                    |      | 32.7                        | 15.8 | 20.3                    | 1.1             |                        | 35.7                               | 739                     |
| 1-14   |                |                    | 6.9                       | .3                                 | 22.9                    |      | 29.7                        | 9.1  | 15.5                    | 2.7             |                        | 26.4                               | 750                     |
| 15-17  |                |                    | 6.5                       | .3                                 | 22.6                    |      | 29.3                        | 9.3  | 9.4                     | 2.7             |                        | 21.4                               | 752                     |
| 18-20  |                | .1                 | 6.2                       | .4                                 | 22.7                    |      | 29.3                        | 9.5  | 7.3                     | 2.3             |                        | 19.6                               | 749                     |
| 1-23   |                | .1                 | 7.4                       | .3                                 | 21.7                    |      | 29.7                        | 10.8 | 3.3                     | 1.3             |                        | 15.5                               | 748                     |
|        |                |                    |                           |                                    |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                    |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                    |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                    |                         |      |                             |      |                         |                 |                        |                                    |                         |
| TOTALS |                | .1                 | 6.6                       | .5                                 | 24.8                    |      | 31.7                        | 11.7 | 9.2                     | 1.7             |                        | 22.1                               | 5961                    |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

1. METEOROLOGICAL CLIMATOLOGY BRANCH  
STAC  
2. WEATHER SERVICE/MAC

## WEATHER CONDITIONS

STATION YOUNGSTOWN MAP OH 73-61 STATION NAME YEARS MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
|--------|-----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-----------------------|
| 1-2    | 0-12            | .4                 | 10.9                      | .4                                | 13.3                    |      | 24.4                        | 10.6 | 3.7                     | .4              |                        | 14.7                               | 618                   |
|        | 13-24           | .4                 | 12.2                      | .5                                | 15.0                    |      | 27.2                        | 14.0 | 4.1                     | .9              |                        | 19.0                               | 815                   |
|        | 1-12            | .2                 | 11.7                      | 1.2                               | 13.5                    |      | 25.2                        | 19.0 | 8.0                     | .2              |                        | 25.4                               | 824                   |
|        | 13-24           | .2                 | 10.9                      | .6                                | 14.0                    |      | 25.4                        | 12.7 | 12.3                    | .4              |                        | 25.2                               | 826                   |
|        | 1-14            | .2                 | 8.8                       | .4                                | 13.0                    |      | 22.0                        | 9.4  | 9.9                     | .2              |                        | 19.6                               | 817                   |
|        | 15-24           | .2                 | 8.4                       | .2                                | 11.2                    |      | 19.9                        | 9.4  | 8.6                     | .2              |                        | 18.1                               | 819                   |
|        | 1-20            | .6                 | 11.9                      | .4                                | 10.2                    |      | 22.5                        | 9.0  | 6.9                     | .4              |                        | 16.3                               | 821                   |
|        | 21-24           | .5                 | 11.2                      | .6                                | 10.9                    |      | 22.3                        | 10.4 | 5.0                     | .4              |                        | 15.7                               | 820                   |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                       |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                       |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                       |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                       |
| TOTALS |                 | .3                 | 10.6                      | .5                                | 12.6                    |      | 23.6                        | 11.7 | 7.3                     | .4              |                        | 19.3                               | 6550                  |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

CLIMATE CLIMATOLOGY BRANCH  
OFFICE TAC  
AIR WEATHER SERVICE/MAC

## WEATHER CONDITIONS

STATION YOUNGSTOWN MAP OH

73-81

APR  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| APR    | 0-02           | .5                 | 10.4                      |                                   | 4.6                     |      | 14.6                        | 8.8  | 3.4                     |                 |                        | 12.0                               | 797                     |
|        | 03-05          | .4                 | 10.5                      |                                   | 4.3                     |      | 14.3                        | 11.5 | 3.2                     |                 |                        | 14.3                               | 788                     |
|        | 06-08          | .3                 | 12.1                      |                                   | 4.0                     | .1   | 16.1                        | 15.4 | 9.4                     |                 |                        | 23.3                               | 799                     |
|        | 09-11          | .5                 | 13.8                      | .1                                | 4.6                     |      | 18.5                        | 9.5  | 11.0                    | .1              |                        | 20.4                               | 800                     |
|        | 12-14          | .9                 | 11.9                      |                                   | 5.1                     |      | 16.7                        | 6.3  | 8.5                     | .8              |                        | 15.5                               | 798                     |
|        | 15-17          | .9                 | 11.7                      |                                   | 4.3                     |      | 15.0                        | 5.9  | 6.3                     | .4              |                        | 12.4                               | 798                     |
|        | 18-20          | 1.4                | 14.4                      |                                   | 4.0                     |      | 17.9                        | 6.9  | 5.0                     |                 |                        | 11.9                               | 798                     |
|        | 21-23          | .9                 | 12.3                      |                                   | 4.7                     |      | 17.0                        | 7.6  | 4.3                     |                 |                        | 11.6                               | 794                     |
|        |                |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
| TOTALS |                | .7                 | 12.1                      | .1                                | 4.5                     | .1   | 16.3                        | 9.0  | 6.4                     | .2              |                        | 15.2                               | 6772                    |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

2. AL CLIMATOLOGY BRANCH  
 3. TAC  
 4. WEATHER SERVICE/MAC

## WEATHER CONDITIONS

71 YOUNGSTOWN MAP OH

73-81

MAY

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| MAY    | 0-02              | .5                 | 12.5                      |                                   | .4                      |      | 12.9                        | 18.1 | 6.5                     |                 |                        | 23.7                               | 773                     |
|        | 03-05             | .6                 | 12.3                      |                                   |                         |      | 12.3                        | 27.0 | 7.3                     |                 |                        | 32.9                               | 770                     |
|        | 06-08             | .1                 | 12.0                      |                                   | .5                      |      | 12.2                        | 25.7 | 17.9                    |                 |                        | 40.7                               | 825                     |
|        | 09-11             | .1                 | 11.7                      |                                   | .4                      |      | 11.3                        | 10.3 | 18.7                    |                 |                        | 28.4                               | 917                     |
|        | 12-14             | .8                 | 9.5                       |                                   | .1                      |      | 9.5                         | 6.1  | 13.2                    |                 |                        | 19.2                               | 824                     |
|        | 15-17             | .6                 | 11.9                      |                                   |                         |      | 11.9                        | 5.4  | 12.8                    |                 |                        | 18.3                               | 918                     |
|        | 18-20             | 1.7                | 15.3                      |                                   |                         |      | 15.3                        | 7.3  | 13.1                    |                 |                        | 19.3                               | 824                     |
|        | 21-23             | .9                 | 15.8                      |                                   | .4                      |      | 16.2                        | 10.8 | 10.4                    |                 |                        | 20.5                               | 786                     |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
| TOTALS |                   | .7                 | 12.5                      |                                   | .2                      |      | 12.7                        | 13.8 | 12.5                    |                 |                        | 25.3                               | 6432                    |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

USAPETAC FORM 0-10-5(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

JUN 1961  
JUN 1961  
JUN 1961

# WEATHER CONDITIONS

STATION YOUNGSTOWN MAP OH

73-61

JUN

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| JUN    | 0-22              | 1.1                | 6.6                       |                                   |                         |      | 6.6                         | 16.1 | 19.6                    |                 |                        | 34.6                               | 739                     |
|        | 23-25             | .8                 | 6.8                       |                                   |                         |      | 8.8                         | 25.4 | 19.8                    |                 |                        | 42.5                               | 708                     |
|        | 26-28             | .4                 | 7.5                       |                                   |                         |      | 7.5                         | 25.2 | 27.8                    |                 |                        | 48.8                               | 803                     |
|        | 29-31             | .5                 | 7.4                       |                                   |                         |      | 7.4                         | 8.5  | 26.7                    |                 |                        | 34.4                               | 787                     |
|        | 1-14              | 1.0                | 6.9                       |                                   |                         |      | 6.9                         | 3.9  | 21.8                    |                 |                        | 25.2                               | 801                     |
|        | 15-17             | 2.3                | 7.5                       |                                   |                         |      | 7.5                         | 2.9  | 22.3                    |                 |                        | 25.2                               | 785                     |
|        | 18-20             | 2.0                | 7.5                       |                                   |                         |      | 7.5                         | 4.5  | 22.4                    |                 |                        | 26.8                               | 796                     |
|        | 21-23             | 1.9                | 7.1                       |                                   |                         |      | 7.1                         | 9.5  | 18.8                    |                 |                        | 27.8                               | 735                     |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
| TOTALS |                   | 1.3                | 7.4                       |                                   |                         |      | 7.4                         | 12.9 | 22.4                    |                 |                        | 33.2                               | 6124                    |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

AL CLIMATOLOGY BRANCH  
STATION  
WEATHER SERVICE/MAC

## WEATHER CONDITIONS

STATION YOUNGSTOWN MAP OH

73-81

JUL

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS. |
|--------|-------------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|------------------------|
| JUL    | 0-23              | 1.0                | 4.8                       |                                   |                         |      | 4.8                         | 17.6 | 26.7                    |                 |                        | 48.1                               | 731                    |
|        | 2-25              | .5                 | 6.9                       |                                   |                         |      | 6.9                         | 34.1 | 27.9                    |                 |                        | 52.6                               | 736                    |
|        | 6-16              | 1.2                | 6.6                       |                                   |                         |      | 6.6                         | 34.9 | 36.3                    |                 |                        | 59.5                               | 822                    |
|        | 9-11              | .5                 | 4.9                       |                                   |                         |      | 4.9                         | 9.7  | 36.7                    |                 |                        | 44.1                               | 821                    |
|        | 12-14             | 1.1                | 5.7                       |                                   |                         |      | 5.7                         | 2.6  | 35.1                    |                 |                        | 37.5                               | 823                    |
|        | 15-17             | 2.4                | 5.6                       |                                   |                         |      | 5.6                         | 2.4  | 33.8                    |                 |                        | 36.1                               | 819                    |
|        | 18-2              | .6                 | 5.6                       |                                   |                         |      | 5.6                         | 3.7  | 32.7                    |                 |                        | 36.1                               | 828                    |
|        | 1-23              | 2.5                | 6.2                       |                                   |                         |      | 6.2                         | 8.0  | 30.3                    |                 |                        | 36.1                               | 767                    |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                        |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                        |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                        |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                        |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                        |
| TOTALS |                   | 1.2                | 5.7                       |                                   |                         |      | 5.7                         | 14.1 | 32.4                    |                 |                        | 42.8                               | 6340                   |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

USAPETAC FORM 0-10-3(OL A), PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CLIMATOLOGY BRANCH  
USAFETAC  
WEATHER SERVICE/MAC

## WEATHER CONDITIONS

75

YOUNGSTOWN MAP OH

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN &/OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|-----------------|--------------------|---------------------------|----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| AUG    | 0-02            | .5                 | 0.5                       |                                  |                         |      | 8.5                         | 25.2 | 26.5                    |                 |                        | 48.4                               | 737                     |
|        | 3-05            | .7                 | 0.7                       |                                  |                         |      | 8.7                         | 39.3 | 27.3                    |                 |                        | 59.4                               | 743                     |
|        | 6-08            | .2                 | 0.4                       |                                  |                         |      | 9.4                         | 48.6 | 33.7                    |                 |                        | 71.9                               | 829                     |
|        | 9-11            | .4                 | 0.5                       |                                  |                         |      | 6.5                         | 16.0 | 40.8                    |                 |                        | 55.9                               | 514                     |
|        | 12-14           | 1.3                | 3.4                       |                                  |                         |      | 0.4                         | 6.1  | 39.3                    |                 |                        | 44.8                               | 819                     |
|        | 15-17           | 2.2                | 7.1                       |                                  |                         |      | 7.1                         | 4.7  | 39.8                    |                 |                        | 43.9                               | 817                     |
|        | 18-2            | 2.3                | 7.9                       |                                  |                         |      | 7.9                         | 7.9  | 37.2                    |                 |                        | 44.2                               | 822                     |
|        | 21-23           | 2.0                | 7.5                       |                                  |                         |      | 7.5                         | 14.0 | 30.7                    |                 |                        | 42.1                               | 762                     |
|        |                 |                    |                           |                                  |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                 |                    |                           |                                  |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                 |                    |                           |                                  |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                 |                    |                           |                                  |                         |      |                             |      |                         |                 |                        |                                    |                         |
| TOTALS |                 | 1.2                | 5.0                       |                                  |                         |      | 8.0                         | 20.2 | 34.4                    |                 |                        | 51.3                               | 6343                    |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

CENTRAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/4AC

## WEATHER CONDITIONS

297 YOUNGSTOWN MAP OH  
 STATION

STATION NAME

73-81

YEARS

SEP  
 MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| JUL    | 0-32              | 1.2                | 7.9                       |                                   |                         |      | 7.9                         | 18.3 | 12.6                    |                 |                        | 30.0                               | 759                     |
|        | 3-35              | .7                 | 7.6                       |                                   |                         |      | 7.6                         | 27.2 | 13.8                    |                 |                        | 37.9                               | 762                     |
|        | 6-38              | .3                 | 10.9                      |                                   |                         |      | 10.9                        | 39.0 | 21.4                    |                 |                        | 54.7                               | 795                     |
|        | 9-11              | .1                 | 9.5                       |                                   |                         |      | 9.5                         | 17.2 | 27.1                    |                 |                        | 43.9                               | 792                     |
|        | 12-14             | .8                 | 9.9                       |                                   |                         |      | 9.9                         | 8.4  | 23.4                    |                 |                        | 31.4                               | 799                     |
|        | 15-17             | .8                 | 7.0                       |                                   |                         |      | 7.0                         | 5.8  | 21.8                    |                 |                        | 27.5                               | 795                     |
|        | 18-2              | 1.6                | 7.8                       |                                   |                         |      | 7.8                         | 6.0  | 19.9                    |                 |                        | 25.2                               | 799                     |
|        | 21-23             | 1.6                | 9.1                       |                                   |                         |      | 9.1                         | 10.5 | 13.1                    |                 |                        | 22.8                               | 771                     |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
| TOTALS |                   | .9                 | 8.7                       |                                   |                         |      | 8.7                         | 16.6 | 19.1                    |                 |                        | 34.2                               | 6272                    |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE



FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/HAC

## WEATHER CONDITIONS

25

YOUNGSTOWN MAP OH

73-81

OCT

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| OCT    | 00-02             | .1                 | 11.5                      |                                   | 2.3                     |      | 12.6                        | 17.5 | 4.8                     |                 |                        | 21.3                               | 825                     |
|        | 3-05              | .2                 | 12.1                      |                                   | 1.5                     |      | 13.6                        | 21.4 | 5.3                     |                 |                        | 26.4                               | 818                     |
|        | 6-08              |                    | 11.7                      |                                   | 1.9                     |      | 13.6                        | 28.5 | 12.5                    |                 |                        | 36.2                               | 824                     |
|        | 9-11              | .1                 | 9.9                       |                                   | 1.3                     |      | 11.2                        | 14.6 | 19.0                    |                 |                        | 32.6                               | 821                     |
|        | 12-14             |                    | 8.6                       |                                   | 1.7                     |      | 10.3                        | 5.3  | 12.2                    |                 |                        | 17.5                               | 828                     |
|        | 15-17             |                    | 10.2                      |                                   | .5                      |      | 10.7                        | 5.7  | 9.9                     |                 |                        | 15.6                               | 820                     |
|        | 18-20             | .5                 | 12.9                      |                                   | 1.0                     |      | 13.5                        | 6.8  | 7.7                     |                 |                        | 14.1                               | 822                     |
|        | 21-23             |                    | 12.4                      |                                   | 2.1                     |      | 14.1                        | 10.4 | 5.6                     |                 |                        | 15.7                               | 824                     |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
| TOTALS |                   | .1                 | 11.7                      |                                   | 1.5                     |      | 12.5                        | 13.8 | 9.6                     |                 |                        | 22.7                               | 6582                    |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

JOINT CLIMATOLOGY BRANCH  
USAFETAC  
AL WEATHER SERVICE/MAC

## WEATHER CONDITIONS

25 YOUNGSTOWN MAP OH 73-81 NOV  
STATION STATION NAME YEARS MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(LST.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HALE | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|-----------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| NOV    | 0-22            |                    | 6.3                       |                                   | 11.5                    |      | 19.6                        | 10.6 | 4.3                     |                 |                        | 14.9                               | 791                     |
|        | 23-05           |                    | 3.4                       | .1                                | 11.8                    | .1   | 20.3                        | 12.9 | 4.7                     |                 |                        | 17.3                               | 785                     |
|        | 06-08           |                    | 1.3                       |                                   | 10.3                    |      | 20.6                        | 18.7 | 8.8                     |                 |                        | 26.6                               | 797                     |
|        | 09-11           | .1                 | 9.6                       | .6                                | 9.9                     |      | 19.8                        | 15.3 | 15.9                    |                 |                        | 29.7                               | 798                     |
|        | 12-14           |                    | 9.8                       | .1                                | 10.9                    |      | 20.6                        | 10.0 | 11.3                    | .1              |                        | 21.0                               | 799                     |
|        | 15-17           |                    | 9.6                       | .1                                | 10.6                    |      | 20.2                        | 8.2  | 9.6                     | .3              |                        | 18.1                               | 792                     |
|        | 18-20           | .1                 | 10.6                      |                                   | 10.8                    |      | 20.9                        | 6.7  | 5.9                     |                 |                        | 12.5                               | 802                     |
|        | 21-23           |                    | 10.0                      |                                   | 9.5                     |      | 19.0                        | 8.8  | 4.6                     |                 |                        | 13.3                               | 791                     |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                 |                    |                           |                                   |                         |      |                             |      |                         |                 |                        |                                    |                         |
| TOTALS |                 | .0                 | 9.6                       | .1                                | 10.7                    | .0   | 20.2                        | 11.4 | 8.1                     | .1              |                        | 19.2                               | 6355                    |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
WEATHER SERVICE/MAC

## WEATHER CONDITIONS

25 YOUNGSTOWN MAP OH

73-81

DEC

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN &/OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--------------------|---------------------------|----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-------------------------|
| D.C.   | 0-12              |                    | 8.7                       | 1.5                              | 25.4                    |      | 35.1                        | 13.4 | 1.7                     | .8              |                        | 16.0                               | 826                     |
|        | 3-06              |                    | 7.2                       | 1.2                              | 27.5                    |      | 35.5                        | 13.5 | 2.7                     | 1.1             |                        | 17.3                               | 814                     |
|        | 06-09             |                    | 9.2                       | 1.3                              | 24.2                    |      | 34.2                        | 18.7 | 4.1                     | .8              |                        | 22.9                               | 827                     |
|        | 09-11             |                    | 9.8                       | 1.2                              | 27.4                    |      | 37.5                        | 20.8 | 8.1                     | 1.7             |                        | 30.3                               | 825                     |
|        | 12-14             |                    | 8.7                       | 1.1                              | 23.3                    |      | 32.8                        | 17.8 | 6.9                     | 1.3             |                        | 25.9                               | 827                     |
|        | 15-17             |                    | 9.6                       | .7                               | 22.4                    |      | 32.2                        | 15.7 | 7.2                     | .9              |                        | 23.6                               | 823                     |
|        | 18-20             | .2                 | 10.5                      | .5                               | 23.2                    |      | 33.5                        | 15.4 | 3.7                     | 1.3             |                        | 20.4                               | 827                     |
|        | 21-23             | .1                 | 7.3                       | .2                               | 26.3                    |      | 33.7                        | 13.5 | 2.8                     | 1.3             |                        | 17.7                               | 820                     |
|        |                   |                    |                           |                                  |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                  |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                  |                         |      |                             |      |                         |                 |                        |                                    |                         |
|        |                   |                    |                           |                                  |                         |      |                             |      |                         |                 |                        |                                    |                         |
| TOTALS |                   | .0                 | 8.9                       | 1.0                              | 25.0                    |      | 34.3                        | 16.1 | 4.7                     | 1.2             |                        | 21.8                               | 6580                    |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

AL CLIMATOLOGY BRANCH  
TAC  
WEATHER SERVICE/MAL

## WEATHER CONDITIONS

STATION YOUNGSTOWN MAP OH STATION NAME 73-81 YEARS ALL MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

| MONTH  | HOURS<br>(L.S.T.) | THUNDER-<br>STORMS | RAIN<br>AND/OR<br>DRIZZLE | FREEZING<br>RAIN & /OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND/OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND/OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS |
|--------|-------------------|--------------------|---------------------------|-----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|-----------------------|
| JAN    | ALL               |                    | 5.7                       | 1.0                               | 33.1                    |      | 39.5                        | 11.8 | 10.9                    | 3.5             |                        | 25.9                               | 6577                  |
| FEB    |                   | .1                 | 5.5                       | .5                                | 24.8                    |      | 31.7                        | 11.7 | 9.2                     | 1.7             |                        | 22.1                               | 5981                  |
| MAR    |                   | .3                 | 10.6                      | .5                                | 12.6                    |      | 23.6                        | 11.7 | 7.3                     | .4              |                        | 19.3                               | 6550                  |
| APR    |                   | .7                 | 12.1                      | .0                                | 4.5                     | .0   | 16.3                        | 9.0  | 6.4                     | .2              |                        | 15.2                               | 6372                  |
| MAY    |                   | .7                 | 12.5                      |                                   | .2                      |      | 12.7                        | 13.8 | 12.5                    |                 |                        | 25.3                               | 6432                  |
| JUN    |                   | 1.3                | 7.4                       |                                   |                         |      | 7.4                         | 12.0 | 22.4                    |                 |                        | 33.2                               | 6124                  |
| JUL    |                   | 1.2                | 5.7                       |                                   |                         |      | 5.7                         | 14.1 | 32.4                    |                 |                        | 42.8                               | 6340                  |
| AUG    |                   | 1.2                | 3.0                       |                                   |                         |      | 8.0                         | 20.2 | 34.4                    |                 |                        | 51.3                               | 6343                  |
| SEP    |                   | .9                 | 3.7                       |                                   |                         |      | 8.7                         | 16.6 | 19.1                    |                 |                        | 34.2                               | 6272                  |
| OCT    |                   | .1                 | 11.0                      |                                   | 1.5                     |      | 12.5                        | 13.8 | 9.6                     |                 |                        | 22.7                               | 6582                  |
| NOV    |                   | .0                 | 9.6                       | .1                                | 10.7                    | .0   | 20.2                        | 11.4 | 8.1                     | .1              |                        | 19.2                               | 6355                  |
| DEC    |                   | .0                 | 5.9                       | 1.0                               | 25.0                    |      | 34.3                        | 16.1 | 4.7                     | 1.2             |                        | 21.8                               | 6589                  |
| TOTALS |                   | .5                 | 8.9                       | .3                                | 9.4                     | .0   | 18.4                        | 13.5 | 14.8                    | .6              |                        | 27.8                               | 76517                 |

ORIGINAL DATA RECORDED IN SYNOPTIC CODE

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrence of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms or from hourly data and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these daily tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than the percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual categories may differ from the total columns.

A percent value of ".0" in the table indicates less than .05 percent, which is usually only one occurrence.

This presentation is by month with annual totals, and is prepared with all years combined.

- NOTES: (1) A day with rain and/or drizzle was not separately reported in the WBAN data prior to year 1949. Therefore, percentages in this column are restricted to the period Jan 1949 and later.
- (2) A day with freezing rain and/or freezing drizzle is also properly reported as a day with rain and/or drizzle.
- (3) A day with dust and/or sand is included in this summary only when visibility is reduced to less than  $5/8$  mile.

LOCAL CLIMATOLOGY BRANCH  
 AFAC  
 WEATHER SERVICE/MAC

XX **WEATHER CONDITIONS** XXXXXXXXXXXXXXXXXXXXXXXX  
 ATMOSPHERIC PHENOMENA

STATION YOUNGSTOWN MAP OH STATION NAME 49-64, 66-91 YEARS ALL MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
 FROM DAILY OBSERVATIONS

| MONTH  | HOURS<br>(LST) | THUNDER-<br>STORMS | RAIN<br>AND OR<br>DRIZZLE | FREEZING<br>RAIN & OR<br>DRIZZLE | SNOW<br>AND/OR<br>SLEET | HAIL | % OF<br>OBS WITH<br>PRECIP. | FOG  | SMOKE<br>AND OR<br>HAZE | BLOWING<br>SNOW | DUST<br>AND OR<br>SAND | % OF OBS<br>WITH OBST<br>TO VISION | TOTAL<br>NO OF<br>OBS. |
|--------|----------------|--------------------|---------------------------|----------------------------------|-------------------------|------|-----------------------------|------|-------------------------|-----------------|------------------------|------------------------------------|------------------------|
| JAN    | 041.1          | .8                 | 32.5                      | 17.8                             | 67.0                    | .1   | 82.9                        | 41.9 | 54.3                    | 10.3            |                        | 75.5                               | 989                    |
| FEB    |                | 1.7                | 31.5                      | 7.7                              | 64.4                    | .6   | 79.2                        | 40.7 | 55.1                    | 11.9            |                        | 74.7                               | 904                    |
| MAR    |                | 5.2                | 42.6                      | 4.9                              | 48.7                    | .3   | 73.7                        | 42.6 | 48.1                    | 5.7             |                        | 67.4                               | 992                    |
| APR    |                | 11.6               | 55.6                      | .5                               | 19.8                    | 1.3  | 64.4                        | 41.7 | 44.4                    | .7              |                        | 64.8                               | 960                    |
| MAY    |                | 14.6               | 54.5                      |                                  | 1.7                     | .5   | 54.9                        | 44.7 | 50.9                    | .1              |                        | 66.8                               | 99                     |
| JUN    |                | 23.1               | 51.3                      |                                  |                         | .7   | 51.3                        | 49.7 | 65.4                    |                 | .1                     | 76.2                               | 960                    |
| JUL    |                | 21.9               | 45.4                      |                                  |                         | .6   | 45.4                        | 54.2 | 68.0                    |                 |                        | 77.5                               | 992                    |
| AUG    |                | 17.9               | 44.6                      |                                  |                         | .3   | 44.6                        | 61.9 | 74.3                    |                 |                        | 84.4                               | 992                    |
| SEP    |                | 11.1               | 45.5                      |                                  | .3                      | .4   | 46.5                        | 57.1 | 64.2                    |                 |                        | 78.5                               | 950                    |
| OCT    |                | 7.2                | 45.5                      |                                  | 7.0                     | .4   | 48.5                        | 45.0 | 54.6                    |                 |                        | 70.1                               | 992                    |
| NOV    |                | 1.0                | 43.6                      | 1.0                              | 37.0                    | .1   | 56.4                        | 44.3 | 48.3                    | 2.0             |                        | 60.8                               | 960                    |
| DEC    |                | 1.0                | 34.1                      | 10.3                             | 61.1                    | .1   | 79.6                        | 43.6 | 48.4                    | 9.1             |                        | 73.0                               | 992                    |
| TOTALS |                | 7.6                | 44.3                      | 3.0                              | 25.6                    | .4   | 61.4                        | 47.3 | 56.3                    | 3.3             | .0                     | 73.2                               | 11657                  |

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

B

This part of the Uniform Summary consists of eight summaries derived from daily observations as follows:

1. The first set presents, in three tables, the percentage frequency of various daily amounts of PRECIPITATION, SNOWFALL, and SNOW DEPTH. The daily amount summary is prepared by month and annual, all years combined, and includes percent of days with measurable amounts; percent of days having none, traces, and given amounts; and means, greatest and least monthly amounts. (The last three statistics are omitted from the snow depth summary because of their doubtful and limited value.) A total count of valid observations is given for months and annual. Stations are included in which a portion or all of the period may contain months with missing days. This will be noted on the summary pages. A percent value of ".0" in these daily amount tables indicates less than .05 percent which is usually only one occurrence.
2. The second set of three tables presents the extreme daily amounts, by individual year and month, of PRECIPITATION, SNOWFALL, and SNOW DEPTH for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months) and the total valid observation count. An asterisk (\*) is printed in any year-month block when the extreme value is based on an incomplete month (at least one day missing for the month). When a month has valid observations reported but no occurrences, zeros are given in the tables as follows:

|                             |       |  |
|-----------------------------|-------|--|
| EXTREME DAILY PRECIPITATION | ".00" | equals none for the month (hundredths)   |
| EXTREME DAILY SNOWFALL      | ".0"  | equals none for the month (tenths)       |
| EXTREME DAILY SNOW DEPTH    | "0"   | equals none for the month (whole inches) |

3. The third set of two tables provides the total monthly amounts of PRECIPITATION and SNOWFALL for each year-month and annual. Also prepared are the means, standard deviations, and total number of valid observations for each month and annual (all months). An asterisk (\*) is printed in each data block if one or more days are missing for the month. No occurrences for a month are indicated in the same manner as in the extreme tables above. If a trace becomes the extreme or monthly total in any of these tables it is printed as "TRACE."

Continued on Reverse Side

Values for means and standard deviations do not include measurements from incomplete months.

- NOTES: (1) The above studies may also be prepared for stations operating for less than full months for portions or all of the period of record. This may include stations operating 5 or 6 days a week and those with only random days missing. An asterisk (\*) in the data blocks will give an indication that a month is incomplete. Please refer to Station History at front of book and observation counts in each summary to evaluate the amounts of data missing.
- (2) Hail was included in snowfall occurrences in the summary of day observations prior to Jan 56, but these occurrences have been removed from snowfall category and counted as Hail in these summaries.
- (3) Snow Depth was recorded and punched at various hours during the period available from U. S. operated stations. The hours used by each service for each period are as follows:

Air Force Stations:

Beginning thru 1945      at 0800LST  
Jan 46-May 57            at 1230GMT  
Jun 57-present          at 1200GMT

U. S. Navy and National Weather Service (USWB)

Beginning thru Jun 52    at 0030GMT  
Jul 52-May 57            at 1230GMT  
Jun 57-present            at 1200GMT



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

72-250  
STATION

YOUNGSTOWN MAP OH

49-64, 66-81

STATION NAME

YEARS

| PRECIP        | AMOUNTS (INCHES) |       |         |         |         |         |         |         |         |         |         |         |         | PERCENT<br>OF DAYS<br>WITH<br>MEASUR-<br>ABLE<br>AMTS | TOTAL<br>NO<br>OF<br>OBS | MONTHLY AMOUNTS<br>(INCHES) |          |       |
|---------------|------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|--------------------------|-----------------------------|----------|-------|
|               | NONE             | TRACE | 0.1-0.4 | 0.5-0.9 | 1.0-1.9 | 2.0-2.9 | 3.0-3.9 | 4.0-4.9 | 5.0-5.9 | 6.0-6.9 | 7.0-7.9 | 8.0-8.9 | 9.0-9.9 |   |                          | MEAN                        | GREATEST | LEAST |
| SNOWFALL      | NONE             | TRACE | 0.1-0.4 | 0.5-0.9 | 1.0-1.9 | 2.0-2.9 | 3.0-3.9 | 4.0-4.9 | 5.0-5.9 | 6.0-6.9 | 7.0-7.9 | 8.0-8.9 | 9.0-9.9 |   |                          |                             |          |       |
| SNOW<br>DEPTH | NONE             | TRACE | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      |   |                          |                             |          |       |
| JAN           | 17.1             | 27.2  | 8.5     | 17.2    | 9.2     | 10.1    | 6.1     | 3.8     | .7      | .1      |         |         |         | 55.7  | 989                      | 2.72                        | 7.64     | .75   |
| FEB           | 27.4             | 26.1  | 6.3     | 17.9    | 9.1     | 9.4     | 6.5     | 3.0     | .8      |         |         |         |         | 53.3  | 903                      | 2.34                        | 5.24     | .60   |
| MAR           | 26.4             | 21.5  | 5.3     | 12.3    | 9.0     | 11.8    | 8.2     | 4.7     | .8      |         |         |         |         | 52.1  | 992                      | 3.27                        | 6.20     | 1.34  |
| APR           | 35.6             | 16.3  | 3.4     | 10.3    | 7.2     | 10.6    | 9.4     | 5.7     | 1.5     |         |         |         |         | 48.1  | 960                      | 3.58                        | 6.43     | 1.35  |
| MAY           | 45.2             | 14.9  | 2.4     | 6.8     | 5.3     | 9.9     | 9.7     | 4.4     | 1.4     |         |         |         |         | 39.9  | 992                      | 3.36                        | 5.94     | .78   |
| JUN           | 48.8             | 13.0  | 3.6     | 5.2     | 5.4     | 8.6     | 7.0     | 6.1     | 2.1     | .1      |         |         |         | 38.2  | 960                      | 3.52                        | 6.97     | 1.35  |
| JUL           | 54.6             | 12.1  | 2.1     | 6.8     | 3.7     | 5.5     | 5.8     | 6.1     | 2.9     | .2      |         |         |         | 33.3  | 992                      | 3.99                        | 7.41     | 1.57  |
| AUG           | 55.4             | 10.9  | 2.6     | 5.6     | 4.6     | 7.8     | 5.4     | 5.4     | 1.9     | .2      |         |         |         | 33.7  | 992                      | 3.32                        | 7.86     | .51   |
| SEP           | 53.5             | 12.7  | 3.3     | 7.4     | 3.3     | 7.1     | 5.1     | 5.8     | 1.5     | .2      |         |         |         | 33.8  | 960                      | 3.11                        | 5.57     | .27   |
| OCT           | 51.5             | 14.6  | 3.6     | 6.1     | 5.9     | 7.6     | 6.5     | 3.1     | .9      | .1      |         |         |         | 33.9  | 992                      | 2.52                        | 8.59     | .43   |
| NOV           | 33.5             | 17.1  | 5.7     | 12.6    | 8.6     | 11.0    | 7.6     | 3.3     | .9      | .1      |         |         |         | 49.3  | 960                      | 2.85                        | 5.52     | .94   |
| DEC           | 27.9             | 21.8  | 8.1     | 18.3    | 9.6     | 10.9    | 6.6     | 3.5     | .8      |         |         |         |         | 57.8  | 992                      | 2.77                        | 5.52     | .88   |
| ANNUAL        | 38.5             | 17.3  | 4.5     | 10.5    | 6.7     | 9.2     | 7.0     | 4.6     | 1.3     | .1      |         |         |         | 44.1  | 11684                    | 37.35                       |          |       |

USAFETAC FORM 0-15-5 (OLA)  
OCT 78

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

## PRECIPITATION

(FROM DAILY OBSERVATIONS)

12-25-77 STATION YOUNGSTOWN MAP OH

49-64, 66-81 YEARS

### 24 HOUR AMOUNTS IN INCHES

| MONTH     | JAN   | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ALL MONTHS |
|-----------|-------|------|------|------|------|------|------|------|------|------|------|------|------------|
| YEAR      |       |      |      |      |      |      |      |      |      |      |      |      |            |
| 49        | * .86 | .71  | .82  | .48  | 1.48 | 1.04 | 1.15 | .62  | .85  | .37  | .47  | .60  | 1.48       |
| 50        | 1.24  | 1.88 | 1.38 | 1.24 | .96  | 1.60 | .54  | .85  | 1.25 | .47  | 1.35 | .72  | 1.88       |
| 51        | .64   | .97  | .98  | .98  | .63  | .74  | .91  | 1.07 | 1.63 | 1.08 | .85  | .68  | 1.63       |
| 52        | 2.16  | .65  | .44  | .67  | 1.08 | .41  | 1.73 | 1.37 | 1.50 | .42  | .80  | .69  | 2.16       |
| 53        | .92   | .40  | .72  | .81  | .83  | 1.29 | 1.08 | .92  | .95  | .17  | .40  | .69  | 1.29       |
| 54        | .63   | 1.03 | 1.53 | 1.10 | .48  | 1.35 | 1.07 | .58  | 1.36 | 4.31 | .33  | .64  | 4.31       |
| 55        | .54*  | .47  | .90  | .96  | .86  | 1.66 | 2.15 | 1.79 | .65  | 1.16 | 2.58 | .15  | 2.58       |
| 56        | .33   | 1.21 | .75  | 1.38 | 1.20 | 1.14 | 1.57 | 2.79 | .30  | .47  | .89  | .57  | 2.79       |
| 57        | .49   | .42  | .52  | 1.47 | 1.35 | 2.96 | 1.06 | .24  | .94  | .80  | .45  | .80  | 2.96       |
| 58        | .47   | .19  | .33  | .86  | .69  | 1.05 | 1.41 | 1.25 | 1.51 | .31  | 1.02 | .24  | 1.51       |
| 59        | 2.65  | 1.49 | .37  | 1.10 | .48  | 1.38 | 1.97 | .59  | 2.56 | .91  | .44  | .96  | 2.65       |
| 60        | .81   | .55  | .45  | .39  | .87  | 1.04 | 1.01 | 1.04 | .17  | .43  | .44  | .24  | 1.04       |
| 61        | .28   | 1.14 | .76  | .80  | .46  | 1.02 | 1.88 | .69  | .90  | .60  | 1.24 | .23  | 1.88       |
| 62        | .60   | .64  | .42  | .63  | 1.09 | .64  | .63  | .85  | .60  | .62  | .90  | .55  | 1.09       |
| 63        | .27   | .16  | .75  | 1.21 | .56  | .69  | .70  | .84  | .37  | .34  | 1.33 | .29  | 1.33       |
| 64        | .71   | .37  | 1.96 | 1.22 | 1.53 | 1.15 | 1.84 | .89  | .55  | 1.03 | .63  | 1.21 | 1.96       |
| 66        | .54   | .82  | .54  | .99  | .47  | 1.11 | 1.00 | .91  | .73  | .48  | 1.49 | .66  | 1.49       |
| 67        | .54   | .52  | .89  | .44  | .85  | .69  | 3.82 | .57  | 1.09 | 1.28 | .44  | .32  | 3.82       |
| 68        | 1.11  | .15  | .82  | .66  | 1.11 | .60  | .82  | 1.35 | .95  | 1.97 | 1.04 | 1.00 | 1.97       |
| 69        | .65   | .25  | .40  | 1.28 | 1.02 | .70  | 1.28 | .30  | 1.00 | 1.59 | .58  | .57  | 1.59       |
| 70        | .45   | .82  | .81  | 1.19 | .49  | 1.05 | .94  | .39  | .39  | .80  | .60  | .81  | 1.19       |
| 71        | .59   | .81  | .46  | .55  | .84  | .85  | .79  | 1.58 | 1.28 | .56  | .79  | 1.33 | 1.58       |
| 72        | .24   | .52  | .71  | 1.56 | .46  | .74  | .96  | .24  | .62  | .27  | .70  | .64  | 1.56       |
| 73        | .60   | .40  | 1.44 | 1.06 | .99  | .97  | 1.65 | 1.04 | .97  | .95  | .61  | 1.16 | 1.65       |
| 74        | .87   | .44  | .53  | .83  | 1.47 | 1.17 | 1.59 | 1.77 | .76  | .55  | 1.02 | .87  | 1.77       |
| 75        | 1.17  | .96  | .70  | .37  | 1.93 | .75  | .82  | 1.25 | 1.21 | 1.71 | .55  | .64  | 1.93       |
| 76        | .81   | 1.25 | .84  | .38  | .47  | 1.08 | 3.68 | 1.07 | 2.17 | .63  | .17  | .45  | 3.68       |
| 77        | .25   | .25  | 1.57 | 1.22 | .38  | 1.20 | 1.11 | 1.89 | 1.55 | .66  | 1.04 | 1.16 | 1.89       |
| 78        | 1.34  | .17  | .44  | .87  | .64  | .86  | 1.48 | .87  | 1.04 | .68  | .40  | 1.06 | 1.48       |
| 79        | .64   | .89  | .45  | .85  | 1.29 | .47  | .78  | 1.22 | 2.97 | .34  | .59  | 1.86 | 2.97       |
| MEAN      |       |      |      |      |      |      |      |      |      |      |      |      |            |
| S D       |       |      |      |      |      |      |      |      |      |      |      |      |            |
| TOTAL OBS |       |      |      |      |      |      |      |      |      |      |      |      |            |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-3 (OLA)

## EXTREME VALUES

(FROM DAILY OBSERVATIONS)

72-251 YOUNGSTOWN MAP OH  
STATION STATION NAME

49-64, 66-81

**YEARS**

## 24 HOUR AMOUNTS IN INCHES

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC      FORM JUL 64      0-88-5 (DL A)

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

**EXTREME VALUES**  
MONTHLY PRECIPITATION

(FROM DAILY OBSERVATIONS)

120250 YOUNGSTOWN MAP OH  
STATION STATION NAME

49-64, 66-81  
YEARS

TOTAL MONTHLY PRECIPITATION IN INCHES

| MONTH<br>YEAR | JAN    | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | ALL<br>MONTHS |
|---------------|--------|------|------|------|------|------|------|------|------|------|------|------|---------------|
| 49            | * 5.42 | 2.53 | 3.12 | 2.95 | 3.67 | 2.85 | 4.55 | 2.48 | 3.40 | 1.16 | 2.02 | 2.98 | *37.13        |
| 50            | 7.64   | 5.26 | 4.32 | 5.53 | 3.98 | 3.91 | 2.18 | 1.68 | 3.17 | 1.97 | 5.39 | 2.32 | 47.35         |
| 51            | 2.96   | 3.73 | 5.68 | 3.61 | 2.1  | 2.93 | 4.96 | 2.58 | 3.27 | 2.00 | 4.38 | 4.36 | 41.86         |
| 52            | 6.82   | 3.15 | 2.71 | 3.48 | 3.93 | 1.35 | 4.60 | 3.72 | 3.62 | 1.42 | 2.71 | 2.19 | 39.70         |
| 53            | 3.33   | 1.28 | 3.38 | 2.94 | 4.56 | 4.38 | 2.30 | 2.69 | 2.35 | .43  | 1.75 | 2.40 | 31.79         |
| 54            | 2.83   | 2.61 | 4.71 | 5.76 | 1.38 | 2.77 | 2.21 | 2.47 | 3.73 | 8.59 | 1.80 | 3.47 | 41.63         |
| 55            | 2.76*  | 2.81 | 5.44 | 4.14 | 3.33 | 3.23 | 3.43 | 4.78 | 1.56 | 5.14 | 4.34 | 1.02 | *41.26        |
| 56            | 1.59   | 4.83 | 4.45 | 5.25 | 5.79 | 4.91 | 7.07 | 7.86 | 1.90 | .90  | 1.54 | 2.49 | 48.55         |
| 57            | 2.15   | 1.71 | 2.13 | 6.43 | 3.17 | 6.97 | 1.57 | .51  | 2.64 | 2.43 | 2.22 | 3.75 | 35.68         |
| 58            | 2.25   | 1.18 | 1.34 | 3.22 | 2.58 | 4.78 | 7.41 | 3.39 | 4.45 | .82  | 1.28 | .88  | 35.58         |
| 59            | 5.34   | 4.25 | 2.50 | 4.15 | 2.49 | 3.76 | 4.40 | 2.34 | 3.04 | 3.66 | 3.21 | 3.29 | 42.39         |
| 60            | 2.60   | 3.15 | 1.34 | 1.35 | 4.57 | 2.97 | 4.80 | 4.63 | .27  | 1.43 | 1.38 | 1.01 | 29.50         |
| 61            | .82    | 2.84 | 3.14 | 4.99 | 1.94 | 5.64 | 5.87 | 2.18 | 2.46 | 2.88 | 2.98 | .99  | 36.73         |
| 62            | 2.41   | 2.07 | 1.96 | 2.31 | 2.13 | 2.47 | 2.40 | 1.31 | 3.00 | 3.62 | 2.38 | 1.09 | 28.09         |
| 63            | 1.12   | .80  | 3.68 | 2.91 | 2.11 | 2.10 | 2.07 | 3.11 | .94  | .45  | 3.24 | 1.26 | 23.79         |
| 64            | 2.03   | 1.36 | 6.20 | 5.97 | 2.96 | 3.59 | 4.18 | 3.20 | .94  | 1.83 | 1.76 | 4.58 | 38.56         |
| 66            | 2.73   | 1.93 | 1.75 | 4.34 | 1.81 | 1.88 | 2.52 | 5.05 | 1.59 | 1.40 | 5.52 | 2.49 | 33.01         |
| 67            | 1.26   | 2.53 | 3.36 | 2.52 | 3.77 | 2.14 | 5.51 | 2.02 | 3.64 | 3.26 | 2.94 | 1.92 | 34.87         |
| 68            | 3.75   | .71  | 3.24 | 2.34 | 5.25 | 3.16 | 2.06 | 5.08 | 2.88 | 4.94 | 4.14 | 4.00 | 41.55         |
| 69            | 2.56   | .83  | 1.83 | 3.91 | 4.07 | 3.57 | 5.79 | .51  | 1.95 | 2.80 | 2.67 | 2.84 | 33.33         |
| 70            | 1.39   | 1.93 | 2.22 | 2.85 | 3.22 | 3.52 | 3.48 | 1.08 | 1.80 | 5.20 | 3.24 | 2.90 | 32.83         |
| 71            | 2.08   | 3.56 | 2.36 | 1.57 | 2.58 | 2.46 | 2.19 | 2.78 | 2.74 | 1.40 | 3.26 | 5.52 | 32.50         |
| 72            | 1.35   | 2.28 | 3.22 | 3.97 | 2.41 | 4.43 | 3.66 | 1.11 | 4.38 | .81  | 4.29 | 3.11 | 35.02         |
| 73            | 1.81   | 1.79 | 3.72 | 4.39 | 5.10 | 3.51 | 2.97 | 2.83 | 2.96 | 2.89 | 1.71 | 3.04 | 36.73         |
| 74            | 2.78   | 1.61 | 4.48 | 3.05 | 4.67 | 3.95 | 3.20 | 7.21 | 3.36 | 1.67 | 3.98 | 3.03 | 42.99         |
| 75            | 3.14   | 3.12 | 3.22 | 1.61 | 5.94 | 2.75 | 2.35 | 6.06 | 5.04 | 2.59 | 1.91 | 2.89 | 40.62         |
| 76            | 3.21   | 3.24 | 4.01 | 1.64 | 1.61 | 4.07 | 7.16 | 2.41 | 5.16 | 2.43 | .94  | 1.66 | 37.53         |
| 77            | 1.53   | 1.19 | 4.46 | 4.06 | .78  | 5.75 | 5.72 | 4.64 | 5.05 | 2.25 | 4.55 | 3.75 | 43.73         |
| 78            | 4.52   | .60  | 1.64 | 3.01 | 4.49 | 3.88 | 3.98 | 2.72 | 4.23 | 4.34 | 1.36 | 4.22 | 38.99         |
| 79            | 2.95   | 2.03 | 1.94 | 4.02 | 4.40 | 2.16 | 3.60 | 4.72 | 5.57 | 1.63 | 2.67 | 3.95 | 39.64         |
| MEAN          |        |      |      |      |      |      |      |      |      |      |      |      |               |
| S.D.          |        |      |      |      |      |      |      |      |      |      |      |      |               |
| TOTAL OBS     |        |      |      |      |      |      |      |      |      |      |      |      |               |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-5 (OL A)

**EXTREME VALUES**  
MONTHLY PRECIPITATION

FROM DAILY OBSERVATIONS:

72-252 YOUNGSTOWN MAP OH  
STATION STATION NAME

49-64, 66-81 YEARS

## TOTAL MONTHLY PRECIPITATION IN INCHES

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC      FORM 44      0-88-5 (OL A)

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# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
 SNOWFALL  
 (FROM DAILY OBSERVATIONS)

72 25 YOUNGSTOWN MAP OH  
 STATION STATION NAME

49-64, 66-81

YEARS

| PRECIP        | AMOUNTS (INCHES) |       |       |       |       |       |       |       |       |       |       |       |       |       | PERCENT<br>OF DAYS<br>WITH<br>MEASUR-<br>ABLE<br>AMTS | TOTAL<br>NO<br>OF<br>OBS | MONTHLY AMOUNTS<br>(INCHES) |          |       |
|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|--------------------------|-----------------------------|----------|-------|
|               | NONE             | TRACE | 01-04 | 05-09 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 |   |                          | MEAN                        | GREATEST | LEAST |
| SNOWFALL      | NONE             | TRACE | 01-04 | 05-09 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 |   |                          |                             |          |       |
| SNOW<br>DEPTH | NONE             | TRACE | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    | 12    |   |                          |                             |          |       |
| JAN           | 3.1              | 23.6  | 18.8  | 16.4  | 4.4   | 1.9   | .7    | .9    | .3    |       |       |       |       |       | 43.5  | 989                      | 13.3                        | 36.0     | 2.7   |
| FEB           | 35.6             | 25.2  | 15.6  | 15.0  | 4.5   | 2.1   | 1.7   | .8    | .1    |       |       |       |       |       | 39.2  | 904                      | 11.3                        | 22.7     | 3.7   |
| MAR           | 51.5             | 19.1  | 11.2  | 10.8  | 4.1   | 1.3   | .8    | .7    | .5    |       |       |       |       |       | 29.4  | 992                      | 10.6                        | 22.0     | 2.6   |
| APR           | 51.1             | 10.3  | 4.1   | 3.9   | 1.1   | .1    |       | .2    |       |       |       |       |       |       | 9.4   | 960                      | 2.3                         | 12.2     | TRACE |
| MAY           | 48.1             | 1.4   | .2    |       |       |       |       | .1    |       |       |       |       |       |       | .1  | 992                      | .2                          | 5.4      | .0    |
| JUN           | 100.0            |       |       |       |       |       |       |       |       |       |       |       |       |       |   | 960                      | .0                          | .0       | .0    |
| JUL           | 100.0            |       |       |       |       |       |       |       |       |       |       |       |       |       |   | 992                      | .0                          | .0       | .0    |
| AUG           | 100.0            |       |       |       |       |       |       |       |       |       |       |       |       |       |   | 992                      | .0                          | .0       | .0    |
| SEP           | 29.7             | .3    |       |       |       |       |       |       |       |       |       |       |       |       |   | 960                      | TRACE                       | TRACE    | .0    |
| OCT           | 23.1             | 5.0   | .8    | .7    | .3    |       | .1    |       |       |       |       |       |       |       | 1.9   | 992                      | .5                          | 7.4      | .0    |
| NOV           | 23.0             | 14.9  | 10.4  | 7.7   | 1.8   | .8    | .5    | .3    | .4    |       |       |       | .1    |       | 22.1  | 960                      | 7.0                         | 30.6     | .3    |
| DEC           | 20.1             | 20.0  | 17.3  | 13.8  | 5.2   | 3.2   | .6    | .4    | .3    |       |       |       |       |       | 40.9  | 992                      | 13.0                        | 23.0     | 5.7   |
| ANNUAL        | 74.5             | 10.0  | 6.5   | 5.7   | 1.8   | .8    | .3    | .3    | .1    |       |       |       | .0    |       | 15.6  | 11685                    | 58.2                        |          |       |

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## EXTREME VALUES

SNOWFALL

(FROM DAILY OBSERVATIONS)

12-25- YOUNGSTOWN MAP OH

49-64, 66-81

STATION

STATION NAME

YEARS

### 24 HOUR AMOUNTS IN INCHES

| MONTH<br>YEAR | JAN   | FEB | MAR | APR   | MAY   | JUN | JUL | AUG | SEP   | OCT   | NOV  | DEC | ALL<br>MONTHS |
|---------------|-------|-----|-----|-------|-------|-----|-----|-----|-------|-------|------|-----|---------------|
| 49            | * 3.1 | 1.8 | 2.2 | .6    | .0    | .0  | .0  | .0  | TRACE | .0    | 4.8  | 2.3 | 4.8           |
| 50            | .8    | 1.2 | 3.4 | 1.0   | .0    | .0  | .0  | .0  | .0    | .0    | 17.0 | 3.3 | 17.0          |
| 51            | 2.4   | 6.4 | 7.3 | .3    | .0    | .0  | .0  | .0  | .0    | .0    | 3.4  | 4.0 | 7.3           |
| 52            | .9    | 3.7 | 3.6 | 2.0   | .0    | .0  | .0  | .0  | .0    | .6    | .7   | 3.4 | 3.7           |
| 53            | 2.5   | 2.4 | 1.1 | 1.8   | .0    | .0  | .0  | .0  | .0    | .0    | 4.3  | 1.7 | 4.3           |
| 54            | 2.4   | 3.4 | 4.0 | .1    | TRACE | .0  | .0  | .0  | .0    | 1.8   | 1.7  | 2.5 | 4.0           |
| 55            | 3.6   | 5.1 | 2.8 | TRACE | .0    | .0  | .0  | .0  | .0    | 1.0   | 5.8  | 1.8 | 5.8           |
| 56            | 4.4   | 3.2 | 5.8 | 1.1   | .1    | .0  | .0  | .0  | TRACE | .0    | .9   | 6.6 | 6.6           |
| 57            | 2.5   | 3.1 | 6.1 | 4.7   | .0    | .0  | .0  | .0  | .0    | 1.2   | .9   | 2.6 | 6.1           |
| 58            | 3.8   | 2.7 | 2.3 | .3    | .0    | .0  | .0  | .0  | .0    | TRACE | 7.3  | 4.2 | 7.3           |
| 59            | 3.5   | 1.6 | 4.3 | TRACE | .0    | .0  | .0  | .0  | .0    | TRACE | 4.3  | 2.5 | 4.3           |
| 60            | 2.6   | 5.2 | 7.2 | 1.3   | .0    | .0  | .0  | .0  | .0    | .3    | 2.5  | 4.4 | 7.2           |
| 61            | 4.5   | 3.8 | 2.3 | 6.0   | TRACE | .0  | .0  | .0  | .0    | .0    | 1.4  | 2.8 | 6.0           |
| 62            | 2.6   | 5.3 | 6.5 | 2.4   | .0    | .0  | .0  | .0  | .0    | 3.8   | .2   | 4.7 | 6.5           |
| 63            | 5.2   | 3.6 | 3.6 | .6    | .2    | .0  | .0  | .0  | .0    | TRACE | 5.4  | 4.3 | 5.4           |
| 64            | 10.0  | 4.5 | 2.9 | .9    | .0    | .0  | .0  | .0  | .0    | TRACE | 3.5  | 4.0 | 10.0          |
| 66            | 7.5   | 1.6 | 1.5 | 1.7   | 5.4   | .0  | .0  | .0  | .0    | TRACE | 2.4  | 2.5 | 7.5           |
| 67            | 3.5   | 5.2 | 2.2 | 2.4   | TRACE | .0  | .0  | .0  | .0    | .6    | 3.1  | 2.2 | 5.2           |
| 68            | 5.5   | 1.9 | 1.9 | TRACE | .0    | .0  | .0  | .0  | .0    | TRACE | 3.1  | 5.8 | 5.8           |
| 69            | 2.1   | 2.2 | 1.8 | TRACE | TRACE | .0  | .0  | .0  | .0    | .4    | 1.9  | 2.6 | 2.6           |
| 70            | 2.3   | 3.5 | 2.0 | .6    | .0    | .0  | .0  | .0  | TRACE | TRACE | 1.2  | 3.1 | 3.5           |
| 71            | 5.2   | 9.0 | 6.0 | .2    | .0    | .0  | .0  | .0  | .0    | .0    | 7.6  | 3.1 | 9.0           |
| 72            | 2.2   | 4.4 | 2.5 | 1.1   | .0    | .0  | .0  | .0  | .0    | .4    | 3.7  | 3.2 | 4.4           |
| 73            | 1.7   | 3.0 | 7.3 | .8    | TRACE | .0  | .0  | .0  | .0    | .0    | 1.5  | 1.8 | 7.3           |
| 74            | 5.8   | 3.0 | 4.1 | 2.7   | TRACE | .0  | .0  | .0  | .0    | .5    | 2.6  | 8.9 | 8.9           |
| 75            | 1.5   | 2.5 | 9.8 | 1.1   | .0    | .0  | .0  | .0  | .0    | .0    | 1.0  | 3.2 | 9.8           |
| 76            | 4.3   | 5.8 | 3.9 | .4    | TRACE | .0  | .0  | .0  | .0    | TRACE | 1.5  | 3.3 | 5.8           |
| 77            | 3.2   | 3.0 | 2.1 | .5    | .0    | .0  | .0  | .0  | .0    | TRACE | 2.5  | 6.0 | 6.0           |
| 78            | 7.1   | 2.2 | 1.6 | TRACE | .0    | .0  | .0  | .0  | .0    | .0    | .8   | 2.0 | 7.0           |
| 79            | 5.3   | 1.9 | 1.6 | TRACE | .0    | .0  | .0  | .0  | .0    | TRACE | .8   | 2.4 | 5.3           |
| MEAN          |       |     |     |       |       |     |     |     |       |       |      |     |               |
| S.D.          |       |     |     |       |       |     |     |     |       |       |      |     |               |
| TOTAL OBS     |       |     |     |       |       |     |     |     |       |       |      |     |               |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM JUL 64 0-88-3 (OLA)

5.

**SNOWFALL**

(FROM DAILY OBSERVATIONS)

49-64, 66-81 YEARS

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC      FORM JUL 64      0-88-5 (OL A)

FORM  
NH 64



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

**EXTREME VALUES**  
MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

12 250 YOUNGSTOWN MAP OH  
STATION STATION NAME

49-64, 66-81 YEARS

TOTAL MONTHLY SNOWFALL IN INCHES

| MONTH<br>YEAR | JAN   | FEB  | MAR  | APR   | MAY   | JUN | JUL | AUG | SEP   | OCT   | NOV  | DEC  | ALL<br>MONTHS |
|---------------|-------|------|------|-------|-------|-----|-----|-----|-------|-------|------|------|---------------|
| 49            | * 4.4 | 3.7  | 8.7  | .9    | .0    | .0  | .0  | .0  | TRACE | .0    | 12.2 | 6.3  | * 36.2        |
| 50            | 2.7   | 6.8  | 12.6 | 3.0   | .0    | .0  | .0  | .0  | .0    | .0    | 30.6 | 14.1 | 69.8          |
| 51            | 11.3  | 8.5  | 19.9 | .9    | .0    | .0  | .0  | .0  | .0    | .0    | 12.9 | 14.5 | 68.0          |
| 52            | 4.2   | 8.3  | 8.1  | 3.4   | .0    | .0  | .0  | .0  | .0    | 1.6   | 1.5  | 6.9  | 34.0          |
| 53            | 9.4   | 7.7  | 6.3  | 5.2   | .0    | .0  | .0  | .0  | .0    | .0    | 10.9 | 8.8  | 48.3          |
| 54            | 9.5   | 7.7  | 10.1 | .1    | TRACE | .0  | .0  | .0  | .0    | 1.8   | 4.9  | 16.2 | 50.3          |
| 55            | 15.9  | 13.5 | 10.6 | TRACE | .0    | .0  | .0  | .0  | .0    | 1.0   | 9.1  | 14.1 | 64.6          |
| 56            | 13.8  | 10.4 | 18.2 | 4.4   | .1    | .0  | .0  | .0  | TRACE | .0    | 3.2  | 15.5 | 65.6          |
| 57            | 17.1  | 9.5  | 13.0 | 11.5  | .0    | .0  | .0  | .0  | .0    | 1.7   | 2.3  | 7.4  | 62.5          |
| 58            | 13.3  | 13.2 | 11.0 | .6    | .0    | .0  | .0  | .0  | .0    | TRACE | 9.1  | 11.4 | 58.6          |
| 59            | 15.8  | 4.8  | 15.0 | TRACE | .0    | .0  | .0  | .0  | .0    | TRACE | 7.3  | 9.9  | 52.8          |
| 60            | 8.3   | 20.8 | 20.6 | 2.6   | .0    | .0  | .0  | .0  | .0    | .3    | 3.3  | 17.7 | 73.6          |
| 61            | 14.3  | 9.2  | 2.6  | 12.2  | TRACE | .0  | .0  | .0  | .0    | .0    | 4.0  | 10.8 | 53.1          |
| 62            | 9.9   | 16.0 | 19.6 | 5.2   | .0    | .0  | .0  | .0  | .0    | 7.4   | .3   | 22.4 | 80.8          |
| 63            | 17.8  | 16.5 | 16.1 | 1.3   | .2    | .0  | .0  | .0  | .0    | TRACE | 8.4  | 23.0 | 83.3          |
| 64            | 20.5  | 17.2 | 8.2  | 1.6   | .0    | .0  | .0  | .0  | .0    | TRACE | 3.8  | 14.2 | 65.5          |
| 66            | 23.4  | 6.7  | 6.1  | 7.2   | 5.4   | .0  | .0  | .0  | .0    | TRACE | 7.4  | 12.5 | 68.7          |
| 67            | 8.1   | 22.7 | 13.9 | 2.4   | TRACE | .0  | .0  | .0  | .0    | .6    | 12.7 | 8.0  | 68.4          |
| 68            | 14.0  | 10.1 | 4.9  | TRACE | .0    | .0  | .0  | .0  | .0    | TRACE | 5.8  | 21.6 | 56.4          |
| 69            | 8.6   | 11.8 | 9.3  | TRACE | TRACE | .0  | .0  | .0  | .0    | .4    | 6.0  | 21.2 | 57.3          |
| 70            | 15.2  | 13.4 | 10.0 | .4    | .0    | .0  | .0  | .0  | TRACE | TRACE | 1.7  | 15.6 | 56.5          |
| 71            | 16.0  | 18.0 | 22.0 | .4    | .0    | .0  | .0  | .0  | .0    | .0    | 20.1 | 7.2  | 83.7          |
| 72            | 9.0   | 19.0 | 9.3  | 2.1   | .0    | .0  | .0  | .0  | .0    | .4    | 8.2  | 8.3  | 56.3          |
| 73            | 5.3   | 11.8 | 8.5  | 1.8   | TRACE | .0  | .0  | .0  | .0    | .0    | 3.3  | 7.0  | 37.7          |
| 74            | 9.8   | 9.2  | 9.2  | 4.7   | TRACE | .0  | .0  | .0  | .0    | .9    | 5.3  | 20.4 | 59.5          |
| 75            | 6.6   | 10.2 | 13.5 | 1.8   | .0    | .0  | .0  | .0  | .0    | .0    | 3.7  | 10.2 | 46.0          |
| 76            | 19.7  | 7.9  | 5.7  | .6    | TRACE | .0  | .0  | .0  | .0    | TRACE | 8.9  | 10.9 | 53.0          |
| 77            | 22.7  | 10.5 | 3.3  | .6    | .0    | .0  | .0  | .0  | .0    | TRACE | 5.6  | 18.6 | 60.6          |
| 78            | 36.1  | 9.6  | 3.6  | TRACE | .0    | .0  | .0  | .0  | .0    | .0    | 2.0  | 5.7  | 56.9          |
| 79            | 16.2  | 9.6  | 2.8  | TRACE | .0    | .0  | .0  | .0  | .0    | TRACE | 1.6  | 7.4  | 37.6          |
| MEAN          |       |      |      |       |       |     |     |     |       |       |      |      |               |
| S.D.          |       |      |      |       |       |     |     |     |       |       |      |      |               |
| TOTAL OBS     |       |      |      |       |       |     |     |     |       |       |      |      |               |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-5 (OLA)  
JUL 64

## EXTREME VALUES

MONTHLY SNOWFALL

(FROM DAILY OBSERVATIONS)

12-252  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

49-64, 66-81 \_\_\_\_\_ YEARS

[illegible]

NOTE \* (BASED ON LESS THAN FULL MONTHS)

**USAF ETAC**

FORM  
JUL 64

**0-88-5 (OL A)**

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT WEATHER SERVICE/MAC

## DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

72 250  
STATION

YOUNGSTOWN MAP OH

52-64, 66-81

STATION NAME

YEARS

| PRECIP        | NONE  | TRACE | AMOUNTS (INCHES) |       |       |       |       |        |         |         |          |           |           | PERCENT<br>OF DAYS<br>WITH<br>MEASUR-<br>ABLE<br>AMTS | TOTAL<br>NO<br>OF<br>OBS | MONTHLY AMOUNTS<br>(INCHES) |          |       |
|---------------|-------|-------|------------------|-------|-------|-------|-------|--------|---------|---------|----------|-----------|-----------|---|--------------------------|-----------------------------|----------|-------|
|               |       |       | 01               | 02 05 | 06 10 | 11 25 | 26 50 | 51 100 | 101 250 | 251 500 | 501 1000 | 1001 2000 | OVER 2000 |   |                          | MEAN                        | GREATEST | LEAST |
| SNOWFALL      | NONE  | TRACE | 0.04             | 0.514 | 1.524 | 2.534 | 3.544 | 4.564  | 6.5104  | 10.5154 | 15.5254  | 25.5304   | OVER 50.4 |   |                          |                             |          |       |
| SNOW<br>DEPTH | NONE  | TRACE | 1                | 2     | 3     | 4.6   | 7.12  | 13.24  | 25.36   | 37.48   | 49.60    | 61.720    | OVER 120  |   |                          |                             |          |       |
| JAN           | 2.4   | 21.3  | 13.2             | 12.6  | 8.8   | 12.7  | 9.9   | 1.4    |         |         |          |           |           | 57.7  | 868                      |                             |          |       |
| FEB           | 22.8  | 22.9  | 12.7             | 12.0  | 8.2   | 17.6  | 3.3   | 1.3    |         |         |          |           |           | 54.4  | 791                      |                             |          |       |
| MAR           | 54.7  | 21.5  | 8.5              | 4.4   | 3.5   | 5.2   | 2.2   |        |         |         |          |           |           | 23.7  | 868                      |                             |          |       |
| APR           | 91.9  | 5.1   | 1.5              | .7    | .4    | .4    |       |        |         |         |          |           |           | 3.0   | 840                      |                             |          |       |
| MAY           | 99.7  | .1    | .1               | .1    |       |       |       |        |         |         |          |           |           | .2  | 868                      |                             |          |       |
| JUN           | 100.0 |       |                  |       |       |       |       |        |         |         |          |           |           |   | 840                      |                             |          |       |
| JUL           | 100.0 |       |                  |       |       |       |       |        |         |         |          |           |           |   | 899                      |                             |          |       |
| AUG           | 100.0 |       |                  |       |       |       |       |        |         |         |          |           |           |   | 899                      |                             |          |       |
| SEP           | 100.0 |       |                  |       |       |       |       |        |         |         |          |           |           |   | 870                      |                             |          |       |
| OCT           | 98.7  | 1.2   | .3               | .1    | .1    |       |       |        |         |         |          |           |           | .6  | 899                      |                             |          |       |
| NOV           | 79.4  | 12.3  | 3.8              | 1.6   | 1.7   | 1.3   | .5    | .1     |         |         |          |           |           | 8.3   | 869                      |                             |          |       |
| DEC           | 32.9  | 22.8  | 13.1             | 10.6  | 9.8   | 7.6   | 3.0   |        |         |         |          |           |           | 44.3  | 899                      |                             |          |       |
| ANNUAL        | 75.0  | 9.0   | 4.4              | 3.5   | 2.6   | 3.7   | 1.6   | .2     |         |         |          |           |           | 16.0  | 10410                    |                             |          |       |

USAFETAC FORM 0-15-5 (OL A)  
OCT 78

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

SNOW DEPTH

(FROM DAILY OBSERVATIONS)

72250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

52-64, 66-81

YEARS

## DAILY SNOW DEPTH IN INCHES

| MONTH<br>YEAR | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG  | SEP  | OCT  | NOV     | DEC   | ALL<br>MONTHS |
|---------------|-------|-------|-------|-------|-------|-------|------|------|------|------|---------|-------|---------------|
| 52            |       |       |       |       |       |       | 0    | 0    | 0    | 0    | 1 TRACE | 3     |               |
| 53            |       | 2     | 3     | 1     | 1     | 0     | 0    | 0    | 0    | 0    | 3       | 3     |               |
| 54            |       | 3     | 4     | 3     | TRACE | 0     | 0    | 0    | 0    | 0    | 1 TRACE | 4     |               |
| 55            |       | 6     | 4     | 1     | TRACE | 0     | 0    | 0    | 0    | 0    | TRACE   | 5     |               |
| 56            |       | 5     | 4     | 7     | TRACE | 0     | 0    | 0    | 0    | 0    | 1       | 5     |               |
| 57            |       | 5     | 2     | 4     | 4     | 0     | 0    | 0    | 0    | 0    | TRACE   | 1     |               |
| 58            |       | 5     | 6     | 2     | TRACE | 0     | 0    | 0    | 0    | 0    | 6       | 5     |               |
| 59            |       | 6     | 2     | 6     | 0     | 0     | 0    | 0    | 0    | 0    | 5       | 3     |               |
| 60            |       | 4     | 5     | 9     | 1     | 0     | 0    | 0    | 0    | 0    | TRACE   | TRACE |               |
| 61            |       | 7     | 7     | 2     | 4     | 0     | 0    | 0    | 0    | 0    | 1       | 4     |               |
| 62            |       | 3     | 4     | 9     | 3     | 0     | 0    | 0    | 0    | 0    | 3       | TRACE |               |
| 63            |       | 8     | 7     | 7     | 0     | 1     | 0    | 0    | 0    | 0    | 4       | 8     |               |
| 64            |       | 11    | 6     | 3     | 2     | 0     | 0    | 0    | 0    | 0    | 1       | 7     |               |
| 65            |       | 10    | 10    | 1     | 1     | 2     | 0    | 0    | 0    | 0    | 4       | 5     |               |
| 66            |       | 5     | 6     | 6     | 2     | TRACE | 0    | 0    | 0    | 0    | TRACE   | 3     |               |
| 67            |       | 9     | 3     | 2     | 0     | 0     | 0    | 0    | 0    | 0    | 3       | 8     |               |
| 68            |       | 4     | 4     | 2     | 0     | 0     | 0    | 0    | 0    | 0    | TRACE   | 3     |               |
| 69            |       | 6     | 6     | 4     | TRACE | 0     | 0    | 0    | 0    | 0    | 1       | 5     |               |
| 70            |       | 7     | 11    | 7     | TRACE | 0     | 0    | 0    | 0    | 0    | 13      | 4     |               |
| 71            |       | 2     | 6     | 3     | 1     | 0     | 0    | 0    | 0    | 0    | 1       | 4     |               |
| 72            |       | 3     | 3     | 9     | 1     | 0     | 0    | 0    | 0    | 0    | 1       | 3     |               |
| 73            |       | 10    | 3     | 5     | 3     | 0     | 0    | 0    | 0    | 0    | TRACE   | 2     |               |
| 74            |       | 1     | 6     | 10    | TRACE | 0     | 0    | 0    | 0    | 0    | TRACE   | 3     |               |
| 75            |       | 8     | 6     | 4     | TRACE | 0     | 0    | 0    | 0    | 0    | TRACE*  | 2     |               |
| 76            |       | 14    | 18    | 1     | TRACE | 0     | 0    | 0    | 0    | 0    | 3       | 12    |               |
| 77            |       | 17    | 10    | 5     | 0     | 0     | 0    | 0    | 0    | 0    | 1       | 2     |               |
| 78            |       | 7     | 6     | 1     | 0     | 0     | 0    | 0    | 0    | 0    | 1       | 3     |               |
| 79            |       | 3     | 7     | 5     | 0     | 0     | 0    | 0    | 0    | 0    | TRACE   | 2     |               |
| 80            |       | 11    | 3     | 3     | TRACE | 0     | 0    | 0    | 0    | 0    | 1       | 9     |               |
| 81            |       |       |       |       |       |       |      |      |      |      |         |       |               |
| MEAN          | 6.5   | 5.8   | 4.4   | .8    | .1    | .0    | .0   | .0   | .0   | .2   | 2.4     | 5.2   | 8.5           |
| S.D.          | 3.766 | 3.337 | 2.792 | 1.278 | .416  | .000  | .000 | .000 | .000 | .602 | 2.693   | 2.744 | 3.523         |
| TOTAL OBS     | 868   | 791   | 868   | 840   | 868   | 840   | 899  | 899  | 870  | 899  | 869     | 899   | 10410         |

NOTE \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM  
JUL 64

0-88-5 (OL A)

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART C

SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

- \*1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through June 1968, and in tens of degrees starting in July 1968. The extreme is selected and printed from available peak gusts for each year-month, however an asterisk (\*) is printed in the data block if less than 90% (3 or more missing observations) of the peak gusts are available for the month. An ALL MONTHS value is presented when every month of the year has valid observations. Means and standard deviations are also computed when four or more values are present for any column. A total raw count of valid observations is presented for each month and ALL MONTHS.

NOTE: According to Federal Meteorological Handbook No. 1 specifications (formerly Circular N), "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

- \*2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both directions and speed, and in addition the mean wind speed is given for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VRBL.

- a. Three tables are prepared for ALL WEATHER surface winds, all years combined, by: (1) Annual - all hours combined, (2) By month - all hours combined, and (3) By month - by standard 3-hour groups.
- b. A separate annual table is also presented for surface winds meeting INSTRUMENT CLASS conditions as follows: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

NOTE: A percentage frequency of ".0" in these tables represents one or more occurrences amounting to less than ".05" percent.

\*Values for means and standard deviations do not include measurements from incomplete months.

5 (BASED ON LESS THAN FULL MONTHS AND +100 KNOTS)

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

STATION 73-81 YOUNGSTOWN MAP OH 73-81 JAN 0000-0200  
STATION NAME YEARS MONTH HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.5   | .9     | 1.0     | .1      |         |         |         |         |         |      | 3.4   | 8.7                   |
| NNE                     |       | .4    | .5     | .4      |         |         |         |         |         |         |      | 1.2   | 8.2                   |
| NE                      | .1    | 1.1   | .6     | .2      |         |         |         |         |         |         |      | 2.1   | 6.7                   |
| ENE                     | .2    | 1.0   | .5     | .2      |         |         |         |         |         |         |      | 1.9   | 6.3                   |
| E                       | .4    | 1.8   | 3.0    | .5      | .4      | .1      |         |         |         |         |      | 6.2   | 8.5                   |
| ESE                     |       | 1.6   | .6     | .4      |         |         |         |         |         |         |      | 2.6   | 6.8                   |
| SE                      |       | 1.2   | 3.3    | 2.2     | .4      | .1      |         |         |         |         |      | 7.2   | 10.3                  |
| SSE                     | .1    | .2    | 1.5    | .6      | .4      |         |         |         |         |         |      | 2.8   | 10.0                  |
| S                       | .4    | 2.2   | 4.6    | 1.0     |         |         |         |         |         |         |      | 8.2   | 7.9                   |
| SSW                     | .1    | 1.2   | 2.3    | .4      |         |         |         |         |         |         |      | 4.0   | 7.3                   |
| SW                      | .1    | 2.1   | 5.7    | 4.4     | .1      | .2      |         |         |         |         |      | 12.7  | 9.9                   |
| WSW                     |       | 2.1   | 5.8    | 5.2     | 1.1     | .2      |         |         |         |         |      | 14.5  | 10.8                  |
| W                       | .2    | 2.9   | 7.1    | 7.8     | 1.3     | .7      |         |         |         |         |      | 20.1  | 11.0                  |
| WNW                     |       | .6    | 2.3    | 1.9     | .1      |         |         |         |         |         |      | 5.0   | 10.1                  |
| NW                      | .6    | .2    | 2.6    | .7      | .1      | .1      |         |         |         |         |      | 4.4   | 9.1                   |
| NNW                     |       | .5    | .6     | .6      | .2      |         |         |         |         |         |      | 1.9   | 10.3                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.8   |                       |
|                         | 2.3   | 20.6  | 41.9   | 27.5    | 4.3     | 1.6     |         |         |         |         |      | 100.0 | 9.5                   |

TOTAL NUMBER OF OBSERVATIONS 821

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-25-  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | .7    | 1.2    | .7      | .1      |         |         |         |         |         |      | 3.0   | 8.7                   |
| NNE                     |       | .5    | .5     | .9      |         |         |         |         |         |         |      | 1.9   | 9.9                   |
| NE                      |       | 1.0   |        | .4      |         |         |         |         |         |         |      | 1.4   | 7.0                   |
| ENE                     |       | .9    | 1.0    | .1      |         |         |         |         |         |         |      | 2.0   | 6.6                   |
| E                       | .4    | 2.6   | 1.5    |         | .1      |         |         |         |         |         |      | 4.6   | 6.2                   |
| ESE                     | .4    | 1.2   | 1.7    | .4      | .2      | .1      |         |         |         |         |      | 4.1   | 8.4                   |
| SE                      | .1    | 1.1   | 2.0    | 2.6     | .4      | .1      |         |         |         |         |      | 6.3   | 10.5                  |
| SSE                     |       | .7    | 1.2    | 1.6     | .2      |         |         |         |         |         |      | 3.8   | 10.7                  |
| S                       | .2    | 2.0   | 4.2    | 1.5     | .2      |         |         |         |         |         |      | 8.2   | 8.5                   |
| SSW                     |       | 2.5   | 2.1    | 1.2     | .1      | .1      |         |         |         |         |      | 6.1   | 8.4                   |
| SW                      | .1    | 3.2   | 4.8    | 3.6     | .4      |         |         |         |         |         |      | 12.1  | 9.2                   |
| WSW                     | .2    | 1.1   | 5.7    | 6.9     | 1.4     | .6      |         |         |         |         |      | 15.9  | 11.6                  |
| W                       |       | 1.5   | 6.3    | 6.1     | .7      | .5      |         |         |         |         |      | 15.1  | 11.3                  |
| WNW                     |       | 1.4   | 2.6    | 1.2     | .1      |         |         |         |         |         |      | 5.3   | 8.9                   |
| NW                      | .1    | 1.2   | 2.5    | 2.2     | .4      |         |         |         |         |         |      | 6.4   | 9.9                   |
| NNW                     | .1    | .7    | .5     | .6      | .1      |         |         |         |         |         |      | 2.1   | 8.9                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.9   |                       |
|                         | 1.9   | 22.4  | 37.8   | 30.0    | 4.6     | 1.5     |         |         |         |         |      | 100.0 | 9.5                   |

TOTAL NUMBER OF OBSERVATIONS

809



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFD WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L & T)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.6   | 1.6    | .7      | .1      |         |         |         |         |         |      | 4.0   | 7.9                   |
| NNE                     | .1    | .5    | .5     | .5      |         |         |         |         |         |         |      | 1.6   | 8.8                   |
| NE                      |       | .9    | 1.3    | .2      |         |         |         |         |         |         |      | 2.4   | 7.6                   |
| ENE                     | .1    | .2    | .4     | .1      |         |         |         |         |         |         |      | .9    | 6.4                   |
| E                       | .2    | 1.5   | 1.3    | .4      |         |         |         |         |         |         |      | 3.4   | 6.7                   |
| ESE                     | .1    | 1.0   | 1.7    | .2      | .4      |         |         |         |         |         |      | 3.4   | 8.4                   |
| SE                      | .2    | 1.0   | 2.3    | 2.7     | .2      |         |         |         |         |         |      | 6.4   | 9.8                   |
| SSE                     |       | 1.5   | 2.8    | .9      |         |         |         |         |         |         |      | 5.1   | 8.2                   |
| S                       |       | 2.9   | 5.2    | 1.8     | .1      |         |         |         |         |         |      | 10.1  | 8.4                   |
| SSW                     |       | 1.7   | 2.9    | 1.3     | .2      |         |         |         |         |         |      | 6.2   | 8.5                   |
| SW                      | .1    | 1.8   | 6.0    | 4.5     | .4      |         | .2      |         |         |         |      | 13.0  | 10.2                  |
| WSW                     | .1    | .9    | 5.6    | 5.3     | 1.1     | .6      |         |         |         |         |      | 14.6  | 11.7                  |
| W                       | .2    | 1.2   | 5.8    | 5.2     | 1.0     | .1      |         |         |         |         |      | 13.6  | 10.9                  |
| WNW                     | .1    | .9    | 1.8    | 2.4     |         |         |         |         |         |         |      | 5.2   | 10.0                  |
| NW                      | .1    | 1.0   | 2.2    | 2.2     | .1      |         |         |         |         |         |      | 5.6   | 9.4                   |
| NNW                     | .2    | .4    | 1.1    | .4      | .1      | .1      |         |         |         |         |      | 2.3   | 9.8                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.2   |                       |
|                         | 1.8   | 18.7  | 42.5   | 29.9    | 3.8     | .9      | .2      |         |         |         |      | 100.0 | 9.4                   |

TOTAL NUMBER OF OBSERVATIONS 823

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

12-250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

JAN

MONTH

ALL WEATHER

0900-1100

HOURS (LST)

CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | .7    | 1.6    | .9      | .4      |         |         |         |         |         |      | 3.6   | 9.5                   |
| NNE                     | .1    | .6    | 1.6    | .6      | .1      |         |         |         |         |         |      | 3.1   | 8.7                   |
| NE                      |       | .5    | .9     | 1.0     |         |         |         |         |         |         |      | 2.3   | 9.4                   |
| ENE                     |       | .1    | .9     | .2      |         |         |         |         |         |         |      | 1.2   | 9.1                   |
| E                       |       | .6    | 1.5    | .6      |         |         |         |         |         |         |      | 2.7   | 8.4                   |
| ESE                     |       | .6    | 1.6    | 2.2     | .1      |         |         |         |         |         |      | 4.5   | 10.6                  |
| SE                      |       | .9    | 1.8    | 1.8     |         |         |         |         |         |         |      | 4.5   | 9.6                   |
| SSE                     |       | .4    | 1.5    | .7      |         |         |         |         |         |         |      | 2.6   | 9.3                   |
| S                       | .2    | 2.0   | 6.0    | 2.8     | .1      |         |         |         |         |         |      | 11.2  | 9.0                   |
| SSW                     | .1    | 2.0   | 2.6    | 1.5     | .4      |         |         |         |         |         |      | 6.5   | 8.7                   |
| SW                      | .4    | 1.7   | 3.9    | 5.8     | .9      | .1      | .2      |         |         |         |      | 13.0  | 11.5                  |
| WSW                     | .1    | .7    | 4.9    | 6.9     | 2.5     | .5      |         |         |         |         |      | 15.6  | 12.7                  |
| W                       |       | .6    | 4.9    | 7.0     | 1.6     | .1      |         |         |         |         |      | 14.2  | 12.1                  |
| WNW                     | .1    | .5    | 2.3    | 2.8     | .4      |         |         |         |         |         |      | 6.1   | 10.8                  |
| NW                      |       | .2    | 2.0    | 2.1     | .2      |         |         |         |         |         |      | 4.5   | 11.4                  |
| NNW                     | .1    | .4    | 1.5    | 1.2     | .1      |         |         |         |         |         |      | 3.3   | 9.5                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.1   |                       |
|                         | 1.2   | 12.5  | 39.3   | 38.1    | 6.7     | .7      | .2      |         |         |         |      | 100.0 | 10.6                  |

TOTAL NUMBER OF OBSERVATIONS

816

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

12 250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (LST)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | .5    | 2.2    | 2.1     | .4      |         |         |         |         |         |      | 5.2   | 10.7                  |
| NNE                     |       | .1    | 1.5    | .7      |         |         |         |         |         |         |      | 2.3   | 9.4                   |
| NE                      | .2    | .9    | 1.0    | .2      |         |         |         |         |         |         |      | 2.3   | 7.1                   |
| ENE                     |       | .1    | .9     | .5      |         |         |         |         |         |         |      | 1.5   | 9.3                   |
| E                       |       | .7    | 1.2    | .5      |         |         |         |         |         |         |      | 2.4   | 8.4                   |
| ESE                     | .1    | .9    | 1.2    | 1.2     |         |         |         |         |         |         |      | 3.4   | 9.0                   |
| SE                      | .1    | .5    | 1.7    | 2.1     |         |         |         |         |         |         |      | 4.4   | 10.2                  |
| SSE                     | .1    | .6    | .6     | .9      |         | .1      |         |         |         |         |      | 2.3   | 9.6                   |
| S                       |       | 1.0   | 4.1    | 3.3     |         |         |         |         |         |         |      | 8.4   | 10.0                  |
| SSW                     |       | .9    | 2.6    | 2.2     | .2      |         |         |         |         |         |      | 5.9   | 9.8                   |
| SW                      |       | 1.3   | 3.2    | 6.5     | .5      | .2      | .2      |         |         |         |      | 12.0  | 12.0                  |
| WSW                     |       | .7    | 2.6    | 7.6     | 2.3     | .7      | .1      |         |         |         |      | 14.0  | 13.7                  |
| W                       |       | .5    | 4.4    | 11.1    | 3.4     | .4      |         |         |         |         |      | 19.8  | 13.3                  |
| WNW                     |       | 1.0   | 2.1    | 2.8     | 1.0     |         |         |         |         |         |      | 6.8   | 11.4                  |
| NW                      |       | .2    | 2.1    | 2.8     | .4      |         |         |         |         |         |      | 5.5   | 11.5                  |
| NNW                     |       | .6    | 1.2    | 1.2     | .1      |         |         |         |         |         |      | 3.2   | 10.6                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .6    |                       |
|                         | .7    | 10.5  | 32.4   | 45.6    | 8.3     | 1.5     | .4      |         |         |         |      | 100.0 | 11.4                  |

TOTAL NUMBER OF OBSERVATIONS

820

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72°25'0  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.5   | 2.0    | 2.3     |         |         |         |         |         |         |      | 5.8   | 9.4                   |
| NNE                     |       | .7    | 1.5    | 1.0     |         |         |         |         |         |         |      | 3.2   | 9.3                   |
| NE                      |       | .5    | 1.0    |         |         |         |         |         |         |         |      | 1.5   | 7.6                   |
| ENE                     | .1    | .5    | .4     | .6      |         |         |         |         |         |         |      | 1.6   | 8.6                   |
| E                       |       | 1.5   | .6     | .4      |         |         |         |         |         |         |      | 2.4   | 6.9                   |
| ESE                     | .1    | .6    | .9     | 1.0     |         | .1      |         |         |         |         |      | 2.7   | 9.6                   |
| SE                      |       | 1.3   | 2.6    | 2.0     | .1      |         |         |         |         |         |      | 6.0   | 9.3                   |
| SSE                     |       | .1    | 1.1    | .7      | .1      |         |         |         |         |         |      | 2.1   | 10.1                  |
| S                       | .1    | 1.6   | 3.7    | 1.2     |         |         |         |         |         |         |      | 6.6   | 8.5                   |
| SSW                     |       | .9    | 2.3    | 2.8     | .1      |         |         |         |         |         |      | 6.1   | 10.2                  |
| SW                      |       | 1.2   | 3.4    | 5.5     | .9      | .2      | .1      |         |         |         |      | 11.4  | 11.7                  |
| WSW                     |       | .6    | 1.2    | 7.3     | 2.1     | .5      | .1      |         |         |         |      | 11.9  | 13.9                  |
| W                       | .1    | 1.3   | 3.2    | 11.3    | 2.4     | .4      | .1      |         |         |         |      | 18.8  | 12.9                  |
| WNW                     |       | .6    | 3.3    | 5.1     | .4      |         |         |         |         |         |      | 9.4   | 11.2                  |
| NW                      | .2    | .4    | 2.2    | 2.8     | .2      |         |         |         |         |         |      | 5.9   | 10.9                  |
| NNW                     | .1    | 1.0   | 1.6    | 1.1     | .2      |         |         |         |         |         |      | 4.0   | 9.5                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .6    |                       |
|                         | .9    | 14.3  | 30.8   | 45.2    | 6.6     | 1.2     | .4      |         |         |         |      | 100.0 | 11.0                  |

TOTAL NUMBER OF OBSERVATIONS

817

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 2.4   | 2.4    | 1.5     |         |         |         |         |         |         |      | 6.3   | 7.9                   |
| NNE                     |       | .8    | 1.7    | .1      |         |         |         |         |         |         |      | 2.7   | 7.3                   |
| NE                      | .1    | .7    | 1.0    | .4      |         |         |         |         |         |         |      | 2.2   | 7.8                   |
| ENE                     |       | .5    | .5     | .1      |         |         |         |         |         |         |      | 1.1   | 7.1                   |
| E                       | .2    | 1.6   | .8     | .5      |         |         |         |         |         |         |      | 3.1   | 7.2                   |
| ESE                     | .2    | .7    | 1.6    | 1.1     |         |         |         |         |         |         |      | 3.6   | 9.0                   |
| SE                      |       | 1.8   | 2.5    | 1.8     | .2      |         |         |         |         |         |      | 6.4   | 9.4                   |
| SSE                     |       | 1.0   | 1.9    | 1.0     |         |         |         |         |         |         |      | 3.9   | 8.7                   |
| S                       | .5    | 2.3   | 3.6    | 1.2     | .1      |         |         |         |         |         |      | 7.7   | 7.9                   |
| SSW                     |       | 2.7   | 1.3    | 1.3     |         |         |         |         |         |         |      | 5.3   | 7.5                   |
| SW                      | .2    | 1.6   | 4.2    | 2.7     | .4      | .4      |         |         |         |         |      | 9.4   | 9.9                   |
| WSW                     | .2    | 1.1   | 3.3    | 5.1     | .8      | .4      |         |         |         |         |      | 10.9  | 11.7                  |
| W                       |       | 1.7   | 7.3    | 10.8    | 1.1     | .2      |         |         |         |         |      | 21.1  | 11.6                  |
| WNW                     |       | 1.1   | 3.0    | 1.6     | .6      | .1      |         |         |         |         |      | 6.4   | 10.1                  |
| NW                      | .2    | 1.0   | 2.5    | 2.8     |         |         |         |         |         |         |      | 6.5   | 10.0                  |
| NNW                     | .2    | 1.0   | .6     | .5      |         |         |         |         |         |         |      | 2.3   | 7.2                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.0   |                       |
|                         | 2.1   | 21.9  | 38.4   | 32.3    | 3.3     | 1.1     |         |         |         |         |      | 100.0 | 9.6                   |

TOTAL NUMBER OF OBSERVATIONS

826

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

725253  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

JAN

MONTH

ALL WEATHER

CLASS

2100-2300

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | .7    | .4     | 1.2     |         |         |         |         |         |         |      | 2.7   | 8.8                   |
| NNE                     |       | .5    | .4     | .4      |         |         |         |         |         |         |      | 1.2   | 8.0                   |
| NE                      |       | 1.0   | 2.0    | .1      |         |         |         |         |         |         |      | 3.0   | 7.2                   |
| ENE                     |       | .7    | 1.1    | .4      |         |         |         |         |         |         |      | 2.2   | 7.4                   |
| E                       | .2    | 2.1   | 2.0    | .6      |         |         |         |         |         |         |      | 4.9   | 7.3                   |
| ESE                     | .1    | .6    | 1.2    | .7      |         |         |         |         |         |         |      | 2.7   | 8.7                   |
| SE                      | .1    | .7    | 3.0    | 2.7     | .5      |         |         |         |         |         |      | 7.1   | 10.3                  |
| SSE                     |       | .2    | 1.5    | 1.2     |         |         |         |         |         |         |      | 2.9   | 10.7                  |
| S                       | .1    | 2.0   | 4.4    | 1.6     | .1      |         |         |         |         |         |      | 8.2   | 8.3                   |
| SSW                     | .1    | 1.3   | 1.5    | .4      |         |         |         |         |         |         |      | 3.3   | 7.4                   |
| SW                      |       | 1.6   | 5.0    | 3.2     | .4      | .1      |         |         |         |         |      | 10.2  | 10.0                  |
| WSW                     | .2    | 1.6   | 6.3    | 6.3     | .6      | .5      |         |         |         |         |      | 15.6  | 10.9                  |
| W                       |       | 2.0   | 6.5    | 9.9     | 1.5     | .1      |         |         |         |         |      | 19.9  | 11.4                  |
| WNW                     | .1    | 1.3   | 2.6    | 1.7     | .5      | .1      |         |         |         |         |      | 6.3   | 9.9                   |
| NW                      | .5    | .5    | 1.8    | 1.7     | .2      |         |         |         |         |         |      | 4.8   | 10.0                  |
| NNW                     | .1    | .6    | 1.1    | .5      | .2      |         |         |         |         |         |      | 2.6   | 9.2                   |
| VARB                    |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.4   |                       |
|                         | 2.1   | 17.4  | 40.6   | 32.6    | 4.0     | .9      |         |         |         |         |      | 100.0 | 9.6                   |

TOTAL NUMBER OF OBSERVATIONS

620

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725257  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 1.2   | 1.5    | 1.3     | .1      |         |         |         |         |         |      | 4.2   | 9.0                   |
| NNE                     | .0    | .5    | 1.0    | .6      | .0      |         |         |         |         |         |      | 2.1   | 8.7                   |
| NE                      | .1    | .8    | 1.0    | .3      |         |         |         |         |         |         |      | 2.2   | 7.6                   |
| ENE                     | .1    | .5    | .7     | .3      |         |         |         |         |         |         |      | 1.5   | 7.6                   |
| E                       | .2    | 1.5   | 1.5    | .4      | .1      | .0      |         |         |         |         |      | 3.7   | 7.5                   |
| ESE                     | .1    | .9    | 1.3    | .9      | .1      | .0      |         |         |         |         |      | 3.4   | 8.9                   |
| SE                      | .1    | 1.1   | 2.4    | 2.2     | .2      | .0      |         |         |         |         |      | 6.0   | 9.9                   |
| SSE                     | .0    | .6    | 1.5    | .9      | .1      | .0      |         |         |         |         |      | 3.2   | 9.5                   |
| S                       | .2    | 2.0   | 4.5    | 1.8     | .1      |         |         |         |         |         |      | 8.6   | 8.6                   |
| SSW                     | .0    | 1.6   | 2.2    | 1.4     | .1      | .0      |         |         |         |         |      | 5.4   | 8.6                   |
| SW                      | .1    | 1.8   | 4.5    | 4.5     | .5      | .2      | .1      |         |         |         |      | 11.7  | 10.6                  |
| WSW                     | .1    | 1.1   | 4.4    | 6.5     | 1.5     | .5      | .0      |         |         |         |      | 14.1  | 12.1                  |
| W                       | .1    | 1.5   | 5.7    | 8.6     | 1.6     | .3      | .0      |         |         |         |      | 17.8  | 11.9                  |
| WNW                     | .0    | .9    | 2.5    | 2.5     | .4      | .0      |         |         |         |         |      | 6.3   | 10.4                  |
| NW                      | .2    | .6    | 2.2    | 2.2     | .2      | .0      |         |         |         |         |      | 5.4   | 10.3                  |
| NNW                     | .1    | .6    | 1.0    | .8      | .2      | .0      |         |         |         |         |      | 2.7   | 9.4                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.4   |                       |
|                         | 1.6   | 17.3  | 38.0   | 35.1    | 5.2     | 1.2     | .2      |         |         |         |      | 100.0 | 10.1                  |

TOTAL NUMBER OF OBSERVATIONS

6552

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

12-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 1.6   | 2.4    | 1.2     |         |         |         |         |         |         |      | 5.5   | 8.4                   |
| NNE                     |       | .8    | 1.3    | .3      |         |         |         |         |         |         |      | 2.4   | 7.4                   |
| NE                      |       | .4    | 2.4    | 1.1     |         |         |         |         |         |         |      | 3.9   | 9.2                   |
| ENE                     | .1    | .4    | 1.3    | .1      | .1      |         |         |         |         |         |      | 2.1   | 8.6                   |
| E                       | .1    | 1.9   | 2.8    | .1      |         |         |         |         |         |         |      | 5.0   | 7.1                   |
| ESE                     | .1    | .8    | 2.0    | 1.5     |         |         |         |         |         |         |      | 4.4   | 9.2                   |
| SE                      | .3    | 1.1   | 2.8    | 1.7     | .1      |         |         |         |         |         |      | 6.0   | 9.0                   |
| SSE                     |       | .5    | 1.6    | 1.2     | .3      |         |         |         |         |         |      | 3.6   | 10.3                  |
| S                       | .5    | 2.4   | 3.6    | 1.1     |         |         |         |         |         |         |      | 7.6   | 7.4                   |
| SSW                     |       | 2.0   | 2.5    | .9      |         |         |         |         |         |         |      | 5.5   | 7.7                   |
| SW                      | .3    | 2.9   | 3.9    | 3.2     |         |         |         |         |         |         |      | 10.3  | 8.9                   |
| WSW                     | .3    | 2.3   | 2.9    | 1.7     | 1.2     |         |         |         |         |         |      | 8.4   | 9.7                   |
| W                       | .1    | 2.3   | 3.9    | 7.5     | .5      | .1      |         |         |         |         |      | 14.5  | 11.2                  |
| WNW                     | .1    | 1.9   | 1.6    | 1.5     | .3      |         |         |         |         |         |      | 5.4   | 9.3                   |
| NW                      | .1    | 2.5   | 2.3    | 2.4     |         |         |         |         |         |         |      | 7.4   | 8.7                   |
| NNW                     | .4    | 2.0   | 1.9    | 1.2     | .3      |         |         |         |         |         |      | 5.8   | 8.1                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.3   |                       |
|                         | 2.8   | 25.8  | 39.4   | 26.8    | 2.8     | .1      |         |         |         |         |      | 100.0 | 8.8                   |

TOTAL NUMBER OF OBSERVATIONS

747



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

721257  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 2.2   | 2.7    | 1.0     |         |         |         |         |         |         |      | 6.0   | 7.8                   |
| NNE                     |       | .4    | 1.1    | .1      |         |         |         |         |         |         |      | 1.6   | 7.8                   |
| NE                      | .3    | 1.2   | 1.9    | 1.0     |         |         |         |         |         |         |      | 4.3   | 8.5                   |
| ENE                     | .1    | 1.4   | 1.6    | .3      |         |         |         |         |         |         |      | 3.4   | 7.3                   |
| E                       | .1    | 1.5   | 3.3    | .4      |         |         |         |         |         |         |      | 5.3   | 7.7                   |
| ESE                     |       | .5    | 1.2    | .4      |         |         |         |         |         |         |      | 2.2   | 8.2                   |
| SE                      |       | .7    | 4.1    | 2.3     |         |         |         |         |         |         |      | 7.1   | 9.6                   |
| SSE                     | .1    | .7    | 1.8    | .5      | .1      |         |         |         |         |         |      | 3.3   | 8.5                   |
| S                       | .5    | 3.5   | 4.1    | 1.8     | .1      |         |         |         |         |         |      | 10.1  | 7.9                   |
| SSW                     | .1    | 2.0   | 2.3    | .7      |         |         |         |         |         |         |      | 5.2   | 7.4                   |
| SW                      | .4    | 2.0   | 3.1    | 3.8     |         |         |         |         |         |         |      | 9.4   | 9.6                   |
| WSW                     | .1    | 2.9   | 3.7    | 3.4     | .7      | .1      |         |         |         |         |      | 10.9  | 10.0                  |
| W                       | .1    | 1.2   | 6.4    | 4.1     | .4      |         |         |         |         |         |      | 12.2  | 10.1                  |
| WNW                     | .1    | 2.0   | 1.6    | 2.3     | .1      |         |         |         |         |         |      | 6.2   | 9.2                   |
| NW                      | .3    | 1.6   | 2.2    | 1.8     |         | .1      |         |         |         |         |      | 6.0   | 8.9                   |
| NNW                     |       | 1.4   | 1.6    | 1.2     | .1      |         |         |         |         |         |      | 4.3   | 9.2                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.6   |                       |
|                         | 2.6   | 25.3  | 42.7   | 25.0    | 1.6     | .3      |         |         |         |         |      | 100.0 | 8.7                   |

TOTAL NUMBER OF OBSERVATIONS

736

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72-257  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

FEB

MONTH

ALL WEATHER

0600-0800

CLASS

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | 1.9   | 2.3    | .9      | .1      |         |         |         |         |         |      | 5.6   | 7.7                   |
| NNE                     |       | .4    | 1.1    | .5      |         |         |         |         |         |         |      | 2.3   | 8.8                   |
| NE                      |       | .7    | 1.2    | .7      |         |         |         |         |         |         |      | 2.5   | 8.7                   |
| ENE                     | .4    | .8    | 1.1    | .1      |         |         |         |         |         |         |      | 2.4   | 6.5                   |
| E                       | .1    | 1.3   | 2.5    | 1.2     | .1      |         |         |         |         |         |      | 5.3   | 8.5                   |
| ESE                     |       | 1.2   | 2.1    | .5      |         |         |         |         |         |         |      | 3.9   | 7.9                   |
| SE                      | .4    | 1.2   | 3.2    | 2.7     |         |         |         |         |         |         |      | 7.5   | 9.2                   |
| SSE                     |       | .5    | 2.1    | .5      |         |         |         |         |         |         |      | 3.2   | 8.7                   |
| S                       | .5    | 2.0   | 5.1    | 1.9     |         |         |         |         |         |         |      | 9.5   | 8.3                   |
| SSW                     | .3    | 2.0   | 2.0    | 1.1     | .3      |         |         |         |         |         |      | 5.6   | 8.2                   |
| SW                      | .5    | 3.6   | 2.9    | 3.9     | .1      |         |         |         |         |         |      | 11.1  | 9.0                   |
| WSW                     |       | 1.1   | 4.1    | 2.4     | .3      |         |         |         |         |         |      | 7.9   | 10.0                  |
| W                       | .3    | 2.0   | 4.3    | 4.0     | .1      |         |         |         |         |         |      | 10.7  | 9.6                   |
| WNW                     | .1    | 2.1   | 2.1    | 2.4     | .3      | .1      |         |         |         |         |      | 7.2   | 9.7                   |
| NW                      |       | 1.5   | 3.3    | 2.3     | .3      |         |         |         |         |         |      | 7.4   | 9.6                   |
| NNW                     | .3    | .8    | 1.1    | 1.6     | .3      |         |         |         |         |         |      | 4.0   | 9.8                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 4.1   |                       |
|                         | 7.3   | 23.1  | 40.6   | 26.7    | 1.9     | .1      |         |         |         |         |      | 100.0 | 8.6                   |

TOTAL NUMBER OF OBSERVATIONS

748

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

72.25 STATION YOUNGSTOWN MAP OH 73-81 YEARS FEB  
STATION NAME CLASS NORTH  
ALL WEATHER  
CONDITION HOURS (L.S.T.)  
0900-1100

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.7   | 2.3    | 1.5     |         |         |         |         |         |         |      | 4.8   | 9.3                   |
| NNE                     | .1    | .3    | .7     | 1.0     |         |         |         |         |         |         |      | 2.0   | 9.6                   |
| NE                      |       | .7    | 1.6    | .4      |         |         |         |         |         |         |      | 2.7   | 8.0                   |
| ENE                     |       | .3    | .7     | .4      |         |         |         |         |         |         |      | 1.4   | 9.3                   |
| E                       | .1    | 1.6   | 2.3    | 1.1     |         |         |         |         |         |         |      | 5.2   | 8.1                   |
| ESE                     |       | .1    | 1.2    | 1.1     | .1      |         |         |         |         |         |      | 2.6   | 10.6                  |
| SE                      | .1    | .4    | 2.7    | 2.6     | .1      |         |         |         |         |         |      | 6.0   | 10.3                  |
| SSE                     |       | 1.0   | 1.4    | .7      | .1      |         |         |         |         |         |      | 3.1   | 8.6                   |
| S                       | .3    | 2.0   | 4.2    | 3.7     |         |         |         |         |         |         |      | 10.2  | 9.1                   |
| SSW                     |       | .5    | 1.9    | 2.2     |         |         |         |         |         |         |      | 4.6   | 10.5                  |
| SW                      | .1    | 1.1   | 3.5    | 5.6     | .4      |         |         |         |         |         |      | 10.7  | 11.1                  |
| WSW                     |       | 1.9   | 4.1    | 4.5     | 1.0     | .3      |         |         |         |         |      | 11.7  | 10.8                  |
| W                       |       | 1.5   | 4.1    | 6.8     | .5      | .1      | .1      |         |         |         |      | 13.2  | 11.2                  |
| WNW                     | .1    | 1.2   | 2.3    | 3.0     | .1      |         |         |         |         |         |      | 6.8   | 10.0                  |
| NW                      | .3    | .5    | 2.9    | 2.7     | .3      |         |         |         |         |         |      | 6.7   | 10.1                  |
| NNW                     | .3    | .8    | 1.6    | 3.3     |         |         |         |         |         |         |      | 6.0   | 10.5                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.3   |                       |
|                         | 1.5   | 15.0  | 37.6   | 40.4    | 2.7     | .4      | .1      |         |         |         |      | 100.0 | 9.9                   |

TOTAL NUMBER OF OBSERVATIONS 735

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

721250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

FEB

MONTH

ALL WEATHER

CLASS

1200-1400

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 1.6   | 3.5    | 3.1     | .3      |         |         |         |         |         |      | 8.7   | 9.5                   |
| NNE                     | .4    | .7    | .8     | 1.1     | .1      |         |         |         |         |         |      | 3.1   | 9.0                   |
| NE                      | .1    | .9    | 1.7    | .7      |         |         |         |         |         |         |      | 3.5   | 8.4                   |
| ENE                     |       | .5    | .3     | .9      |         |         |         |         |         |         |      | 1.7   | 10.2                  |
| E                       |       | .8    | 1.3    | .4      |         |         |         |         |         |         |      | 2.5   | 8.1                   |
| ESE                     | .1    | .5    | 1.7    | .8      |         |         |         |         |         |         |      | 3.2   | 9.1                   |
| SE                      |       | .4    | 1.9    | 1.9     | .1      | .1      |         |         |         |         |      | 4.4   | 11.3                  |
| SSE                     |       | .5    | .9     | .7      |         |         |         |         |         |         |      | 2.1   | 8.8                   |
| S                       | .4    | .4    | 2.7    | 2.9     | .1      |         |         |         |         |         |      | 6.6   | 10.3                  |
| SSW                     |       | 1.1   | 2.1    | 3.1     |         |         |         |         |         |         |      | 6.3   | 10.5                  |
| SW                      | .1    | 2.0   | 2.9    | 4.3     | 1.3     | .1      |         |         |         |         |      | 10.8  | 11.3                  |
| WSW                     |       | .5    | 2.7    | 4.4     | 1.1     | .4      |         |         |         |         |      | 9.1   | 12.5                  |
| W                       | .1    | .9    | 3.1    | 10.2    | 1.6     | .4      |         |         |         |         |      | 16.3  | 12.5                  |
| WNW                     |       | .3    | 2.1    | 4.0     | .3      |         |         |         |         |         |      | 6.7   | 11.7                  |
| NW                      | .1    | .5    | 2.7    | 5.7     | .7      |         |         |         |         |         |      | 9.3   | 11.8                  |
| NNW                     |       | .1    | 1.7    | 2.3     | .1      |         |         |         |         |         |      | 4.3   | 11.4                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .9    |                       |
|                         | 1.7   | 11.9  | 32.2   | 46.4    | 5.7     | 1.1     |         |         |         |         |      | 100.0 | 10.9                  |

TOTAL NUMBER OF OBSERVATIONS

748

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

12-25. YOUNGSTOWN MAP OH 73-81 FEB  
STATION STATION NAME YEARS NORTH  
ALL WEATHER  
CLASS  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.6   | 4.5    | 3.3     | .4      |         |         |         |         |         |      | 9.9   | 9.9                   |
| NNE                     |       | .1    | 1.6    | 1.1     |         |         |         |         |         |         |      | 2.8   | 9.9                   |
| NE                      | .1    | .7    | 1.2    | .7      | .1      |         |         |         |         |         |      | 2.8   | 8.6                   |
| ENE                     | .1    |       | .8     | .7      |         |         |         |         |         |         |      | 1.6   | 9.9                   |
| E                       | .3    | .4    | 1.5    | .3      |         |         |         |         |         |         |      | 2.4   | 7.6                   |
| ESE                     |       | .8    | 1.7    | .1      |         |         |         |         |         |         |      | 2.7   | 7.9                   |
| SE                      | .3    | .4    | 2.3    | 2.0     | .3      |         |         |         |         |         |      | 5.2   | 10.1                  |
| SSE                     |       | .3    | .7     | .7      | .1      |         |         |         |         |         |      | 1.7   | 11.0                  |
| S                       | .1    | 1.6   | 3.6    | 1.7     | .1      |         |         |         |         |         |      | 7.2   | 8.8                   |
| SSW                     | .1    | 1.1   | 1.6    | 2.0     | .3      |         |         |         |         |         |      | 5.1   | 10.0                  |
| SW                      | .1    | 1.3   | 4.1    | 4.9     | .4      | .5      |         |         |         |         |      | 11.5  | 11.3                  |
| WSW                     |       | .5    | 2.7    | 5.5     | .8      | .1      |         |         |         |         |      | 9.6   | 12.3                  |
| W                       | .1    | 1.5   | 2.9    | 7.7     | 1.6     | .3      |         |         |         |         |      | 14.1  | 12.4                  |
| WNW                     |       | .5    | 1.7    | 4.8     | .1      |         |         |         |         |         |      | 7.2   | 11.7                  |
| NW                      | .3    | .4    | 3.6    | 4.9     | .7      |         |         |         |         |         |      | 9.9   | 11.3                  |
| NNW                     |       | .8    | 2.5    | 2.4     | .4      |         |         |         |         |         |      | 6.1   | 11.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .4    |                       |
|                         | 1.6   | 12.0  | 37.0   | 42.7    | 5.3     | .9      |         |         |         |         |      | 100.0 | 10.7                  |

TOTAL NUMBER OF OBSERVATIONS 751

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

125250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

FEB

MONTH

ALL WEATHER

CLASS

1800-2000

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .5    | 2.9   | 5.2    | 1.5     |         | .1      |         |         |         |         |      | 10.3  | 7.8                   |
| NNE                     |       | .5    | 2.4    | .9      | .3      |         |         |         |         |         |      | 4.1   | 9.4                   |
| NE                      |       | .9    | 2.4    | .7      |         |         |         |         |         |         |      | 4.0   | 8.6                   |
| ENE                     |       | .8    | .7     | .1      |         |         |         |         |         |         |      | 1.6   | 7.5                   |
| E                       | .1    | 1.3   | 2.3    | .1      |         |         |         |         |         |         |      | 3.9   | 7.2                   |
| ESE                     |       | .5    | 1.1    | .7      |         |         |         |         |         |         |      | 2.3   | 8.9                   |
| SE                      |       | 1.1   | 1.6    | 1.1     | .4      | .3      |         |         |         |         |      | 4.4   | 10.5                  |
| SSE                     |       | 1.9   | .9     | .5      | .1      |         |         |         |         |         |      | 3.5   | 7.8                   |
| S                       | .4    | 2.4   | 2.9    | 1.2     |         |         |         |         |         |         |      | 7.0   | 7.7                   |
| SSW                     | .4    | 1.6   | 2.4    | .9      |         |         |         |         |         |         |      | 5.3   | 7.6                   |
| SW                      |       | 2.8   | 4.3    | 2.4     | .1      | .4      |         |         |         |         |      | 10.0  | 9.3                   |
| WSW                     |       | .9    | 3.2    | 3.3     | 1.2     |         |         |         |         |         |      | 8.7   | 11.6                  |
| W                       | .1    | 1.7   | 4.4    | 4.8     | 1.2     | .4      |         |         |         |         |      | 12.7  | 11.4                  |
| WNW                     | .1    | 1.6   | 2.4    | 1.5     | .3      | .1      |         |         |         |         |      | 6.0   | 9.8                   |
| NW                      | .1    | 2.4   | 3.6    | 2.5     |         |         |         |         |         |         |      | 8.7   | 8.8                   |
| NNW                     | .3    | 1.1   | 2.1    | 2.1     | .4      | .1      |         |         |         |         |      | 6.1   | 10.2                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.3   |                       |
|                         | 2.1   | 24.6  | 42.0   | 24.5    | 4.0     | 1.5     |         |         |         |         |      | 100.0 | 9.2                   |

TOTAL NUMBER OF OBSERVATIONS

748

USAFETAC FORM 0-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725257  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

FEB

MONTH

ALL WEATHER

CLASS

2100-2300

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 2.4   | 2.3    | 1.9     |         |         |         |         |         |         |      | 6.7   | 8.5                   |
| NNE                     | .1    | .4    | 2.3    | 1.1     |         |         |         |         |         |         |      | 3.9   | 9.6                   |
| NE                      |       | 2.0   | 2.9    | .8      |         |         |         |         |         |         |      | 5.8   | 8.0                   |
| ENE                     |       | .5    | 1.2    | .1      |         |         |         |         |         |         |      | 1.9   | 8.1                   |
| E                       | .1    | 1.9   | 1.9    | .4      |         |         |         |         |         |         |      | 4.3   | 7.0                   |
| ESE                     | .1    | .8    | 1.6    | .7      |         |         |         |         |         |         |      | 3.2   | 8.5                   |
| SE                      | .1    | .7    | 2.5    | 1.6     | .3      |         |         |         |         |         |      | 5.2   | 9.7                   |
| SSE                     |       | .5    | 1.6    | .8      | .4      |         |         |         |         |         |      | 3.4   | 10.4                  |
| S                       | .1    | 4.8   | 3.4    | 1.2     |         |         |         |         |         |         |      | 9.5   | 7.2                   |
| SSW                     |       | 2.3   | 2.7    | 1.1     |         |         |         |         |         |         |      | 6.0   | 8.1                   |
| SW                      | .4    | 1.2   | 2.9    | 2.9     | .4      |         |         |         |         |         |      | 7.9   | 9.7                   |
| WSW                     | .1    | 1.1   | 2.5    | 2.7     | .7      |         |         |         |         |         |      | 7.1   | 10.6                  |
| W                       | .4    | 2.9   | 3.8    | 6.8     | 2.1     | .4      | .1      |         |         |         |      | 16.6  | 11.4                  |
| WNW                     | .1    | 1.9   | 1.6    | 1.1     |         |         |         |         |         |         |      | 4.7   | 8.1                   |
| NW                      | .1    | 2.4   | 2.9    | 1.9     | .4      |         |         |         |         |         |      | 7.8   | 8.9                   |
| NNW                     |       | 1.2   | 2.0    | .7      |         | .1      |         |         |         |         |      | 4.0   | 8.8                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.0   |                       |
|                         | 2.0   | 27.1  | 38.2   | 25.7    | 4.3     | .5      | .1      |         |         |         |      | 100.0 | 9.0                   |

TOTAL NUMBER OF OBSERVATIONS

746

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-250

YOUNGSTOWN MAP OH

73-81

FEB

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 1.9   | 3.2    | 1.8     | .1      | .0      |         |         |         |         |      | 7.2   | 8.7                   |
| NNE                     | .1    | .5    | 1.4    | .8      | .1      |         |         |         |         |         |      | 2.8   | 9.1                   |
| NE                      | .1    | .9    | 1.9    | .7      | .0      |         |         |         |         |         |      | 3.7   | 8.5                   |
| ENE                     | .1    | .6    | 1.0    | .4      | .0      |         |         |         |         |         |      | 2.0   | 8.2                   |
| E                       | .1    | 1.3   | 2.2    | .5      | .0      |         |         |         |         |         |      | 4.2   | 7.7                   |
| ESE                     | .1    | .7    | 1.6    | .7      | .0      |         |         |         |         |         |      | 3.1   | 8.8                   |
| SE                      | .2    | .7    | 2.6    | 2.0     | .2      | .1      |         |         |         |         |      | 5.7   | 9.9                   |
| SSE                     | .0    | .7    | 1.4    | .7      | .2      |         |         |         |         |         |      | 3.0   | 9.2                   |
| S                       | .4    | 2.4   | 3.7    | 1.9     | .1      |         |         |         |         |         |      | 8.4   | 8.3                   |
| SSW                     | .1    | 1.6   | 2.2    | 1.5     | .1      |         |         |         |         |         |      | 5.5   | 8.7                   |
| SW                      | .3    | 2.1   | 3.5    | 3.9     | .4      | .1      |         |         |         |         |      | 10.2  | 10.1                  |
| WSW                     | .1    | 1.4   | 3.2    | 3.5     | .9      | .1      |         |         |         |         |      | 9.2   | 10.9                  |
| W                       | .2    | 1.8   | 4.1    | 6.5     | 1.0     | .2      | .0      |         |         |         |      | 13.8  | 11.3                  |
| WNW                     | .1    | 1.4   | 1.9    | 2.6     | .2      | .0      |         |         |         |         |      | 6.3   | 10.1                  |
| NW                      | .2    | 1.5   | 2.9    | 3.0     | .3      | .0      |         |         |         |         |      | 7.9   | 9.9                   |
| NNW                     | .2    | 1.0   | 1.8    | 1.8     | .2      | .0      |         |         |         |         |      | 5.1   | 9.9                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.0   |                       |
|                         | 2.2   | 20.6  | 38.7   | 32.3    | 3.6     | .6      | .0      |         |         |         |      | 100.0 | 9.5                   |

TOTAL NUMBER OF OBSERVATIONS

5959



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 2.0   | 2.0    | 1.1     | .2      |         |         |         |         |         |      | 5.3   | 8.5                   |
| NNE                     | .1    | .6    | .7     | .4      |         |         |         |         |         |         |      | 1.8   | 7.7                   |
| NE                      | .2    | 1.5   | 1.7    | .4      |         |         |         |         |         |         |      | 3.8   | 6.9                   |
| ENE                     | .1    | 1.5   | 2.2    | .2      |         |         |         |         |         |         |      | 4.0   | 7.1                   |
| E                       | .1    | 1.8   | 4.0    | 1.0     |         |         |         |         |         |         |      | 7.0   | 8.0                   |
| ESE                     | .1    | 1.0   | 2.7    | 2.7     | .2      |         |         |         |         |         |      | 6.7   | 10.2                  |
| SE                      |       | 1.5   | 3.3    | 4.2     | .1      |         |         |         |         |         |      | 9.1   | 10.1                  |
| SSE                     | .2    | 1.1   | 1.6    | .7      |         |         |         |         |         |         |      | 3.7   | 7.7                   |
| S                       | .1    | 2.8   | 4.8    | 1.3     | .1      |         |         |         |         |         |      | 9.2   | 8.0                   |
| SSW                     | .1    | .4    | 2.0    | .5      |         |         |         |         |         |         |      | 2.9   | 8.6                   |
| SW                      | .1    | 1.6   | 1.8    | 2.0     | .2      |         |         |         |         |         |      | 5.8   | 9.4                   |
| WSW                     | .4    | .7    | 2.6    | 1.6     | .2      |         |         |         |         |         |      | 5.5   | 8.9                   |
| W                       | .1    | 2.1   | 5.6    | 3.6     | .6      |         | .1      |         |         |         |      | 12.1  | 9.8                   |
| WNW                     |       | 1.2   | 3.7    | 2.3     | .4      |         |         |         |         |         |      | 7.6   | 9.8                   |
| NW                      |       | 1.6   | 2.3    | 3.6     | .6      | .1      |         |         |         |         |      | 8.2   | 10.9                  |
| NNW                     | .2    | 1.3   | 2.5    | .7      |         |         |         |         |         |         |      | 4.8   | 8.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.3   |                       |
|                         | 2.1   | 22.7  | 43.6   | 26.3    | 2.8     | .1      | .1      |         |         |         |      | 100.0 | 8.8                   |

TOTAL NUMBER OF OBSERVATIONS

815

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-----|-------|-----------------------|
| N                       | .4    | 2.4   | 2.0    | 1.0     | .4      |         |         |         |         |         |     | 6.1   | 8.2                   |
| NNE                     |       | .3    | .6     | .3      |         |         |         |         |         |         |     | 1.1   | 8.0                   |
| NE                      | .1    | 2.0   | 1.6    | .1      |         |         |         |         |         |         |     | 3.9   | 6.8                   |
| ENE                     |       | 1.4   | 1.9    | .4      |         |         |         |         |         |         |     | 3.6   | 7.7                   |
| E                       |       | 1.1   | 3.5    | 1.4     |         |         |         |         |         |         |     | 6.0   | 8.7                   |
| ESE                     | .4    | 1.0   | 3.9    | 2.4     | .1      |         |         |         |         |         |     | 7.8   | 9.4                   |
| SE                      |       | 1.1   | 3.6    | 3.5     | .4      |         |         |         |         |         |     | 8.6   | 10.3                  |
| SSE                     | .1    | .9    | 2.1    | 1.5     |         |         |         |         |         |         |     | 4.6   | 9.2                   |
| S                       |       | 2.3   | 5.8    | 1.6     |         |         |         |         |         |         |     | 9.6   | 8.5                   |
| SSW                     | .1    | .5    | 2.4    | .8      |         |         |         |         |         |         |     | 3.8   | 8.8                   |
| SW                      | .4    | 1.8   | 2.9    | 2.0     | .1      |         |         |         |         |         |     | 7.1   | 8.7                   |
| WSW                     | .1    | 1.0   | 2.5    | .6      | .3      |         |         |         |         |         |     | 4.5   | 8.6                   |
| W                       |       | 3.3   | 5.1    | 3.1     | .4      | .1      |         |         |         |         |     | 12.0  | 9.4                   |
| WNW                     |       | 1.1   | 2.5    | 2.9     | .4      |         |         |         |         |         |     | 6.9   | 10.6                  |
| NW                      |       | 1.0   | 2.0    | 4.0     | .3      |         |         |         |         |         |     | 7.3   | 11.3                  |
| NNW                     | .1    | 1.8   | 1.3    | 1.5     | .1      |         |         |         |         |         |     | 4.8   | 8.6                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |     |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |     | 2.4   |                       |
|                         | 1.8   | 22.8  | 43.6   | 27.0    | 2.4     | .1      |         |         |         |         |     | 100.0 | 8.9                   |

TOTAL NUMBER OF OBSERVATIONS

800

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 1.5   | 2.3    | 1.0     | .2      |         |         |         |         |         |      | 5.2   | 8.8                   |
| NNE                     | .2    | .4    | .8     |         |         |         |         |         |         |         |      | 1.5   | 6.5                   |
| NE                      |       | 2.2   | 1.5    |         |         |         |         |         |         |         |      | 3.6   | 6.6                   |
| ENE                     | .1    | 1.0   | 1.7    | .2      |         |         |         |         |         |         |      | 3.0   | 7.0                   |
| E                       | .2    | 2.5   | 4.4    | 1.2     | .1      |         |         |         |         |         |      | 8.5   | 8.1                   |
| ESE                     | .1    | .7    | 2.5    | 2.1     | .2      |         |         |         |         |         |      | 5.7   | 9.6                   |
| SE                      |       | 1.8   | 4.1    | 4.4     | .5      |         |         |         |         |         |      | 10.8  | 10.3                  |
| SSE                     |       | .5    | 1.5    | 1.6     | .2      |         |         |         |         |         |      | 3.8   | 10.6                  |
| S                       | .2    | 1.7   | 7.3    | 1.9     |         |         |         |         |         |         |      | 11.2  | 8.7                   |
| SSW                     | .1    | 1.2   | 1.8    | 1.5     |         |         |         |         |         |         |      | 4.6   | 8.8                   |
| SW                      | .1    | 2.9   | 3.8    | 1.1     |         |         |         |         |         |         |      | 7.9   | 7.8                   |
| WSW                     | .1    | .5    | 1.5    | 1.5     | .1      | .1      |         |         |         |         |      | 3.8   | 10.5                  |
| W                       |       | 2.4   | 6.6    | 3.0     | .8      | .1      |         |         |         |         |      | 13.0  | 9.8                   |
| WNW                     | .1    | 1.5   | 1.5    | 2.2     | .6      |         |         |         |         |         |      | 5.8   | 10.4                  |
| NW                      |       | 1.1   | 2.5    | 3.4     | .2      |         |         |         |         |         |      | 7.3   | 10.7                  |
| NNW                     | .1    | 1.0   | .8     | 1.0     |         |         |         |         |         |         |      | 2.9   | 8.7                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.5   |                       |
|                         | 1.8   | 22.8  | 44.5   | 26.0    | 3.2     | .2      |         |         |         |         |      | 100.0 | 9.0                   |

TOTAL NUMBER OF OBSERVATIONS

829

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 1.7   | 2.7    | 1.3     | .7      |         |         |         |         |         |      | 6.6   | 9.4                   |
| NNE                     |       | .5    | .4     | .7      |         |         |         |         |         |         |      | 1.6   | 9.8                   |
| NE                      | .1    | 1.2   | 1.0    | 1.2     |         |         |         |         |         |         |      | 3.5   | 9.0                   |
| ENE                     |       | .2    | 1.1    | .7      |         |         |         |         |         |         |      | 2.1   | 9.0                   |
| E                       | .1    | 1.0   | 2.4    | 1.2     | .4      |         |         |         |         |         |      | 5.1   | 9.5                   |
| ESE                     | .1    | .6    | 2.2    | 2.4     |         |         |         |         |         |         |      | 5.3   | 10.0                  |
| SE                      |       | .7    | 2.8    | 3.6     | .5      |         |         |         |         |         |      | 7.6   | 11.0                  |
| SSE                     |       | .4    | 2.5    | 1.9     | .4      |         |         |         |         |         |      | 5.2   | 11.0                  |
| S                       | .1    | 1.6   | 3.6    | 4.2     | .1      |         |         |         |         |         |      | 9.7   | 10.0                  |
| SSW                     | .1    | .6    | 2.1    | 1.9     | .1      |         |         |         |         |         |      | 4.9   | 10.2                  |
| SW                      |       | .7    | 2.5    | 6.3     | .7      | .1      |         |         |         |         |      | 10.4  | 12.1                  |
| WSW                     | .2    | .2    | 1.6    | 4.4     | .4      |         |         |         |         |         |      | 6.8   | 11.8                  |
| W                       |       | 1.0   | 3.8    | 7.2     | 1.1     |         |         |         |         |         |      | 13.0  | 11.8                  |
| WNW                     | .1    | .2    | 2.2    | 3.0     | .1      |         |         |         |         |         |      | 5.7   | 11.1                  |
| NW                      | .1    | .6    | 1.6    | 3.9     | .5      |         |         |         |         |         |      | 6.7   | 11.9                  |
| NNW                     |       | .6    | 2.1    | 2.7     |         |         |         |         |         |         |      | 5.3   | 10.3                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .5    |                       |
|                         | 1.2   | 11.9  | 34.5   | 46.8    | 5.0     | .1      |         |         |         |         |      | 100.0 | 10.7                  |

TOTAL NUMBER OF OBSERVATIONS

824

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 1.7   | 2.8    | 2.0     | 1.0     |         |         |         |         |         |      | 6.9   | 10.6                  |
| NNE                     | .1    | .7    | .4     | .6      |         |         |         |         |         |         |      | 1.8   | 8.1                   |
| NE                      |       | .1    | 1.2    | 1.0     | .4      |         |         |         |         |         |      | 2.7   | 11.1                  |
| ENE                     |       | .5    | .1     | .4      |         |         |         |         |         |         |      | 1.0   | 8.0                   |
| E                       | .1    | .5    | 1.3    | 1.8     | .1      |         |         |         |         |         |      | 3.9   | 10.5                  |
| ESE                     |       | .6    | 2.0    | 1.3     | .1      |         |         |         |         |         |      | 4.0   | 9.7                   |
| SE                      | .1    | .6    | 2.2    | 3.2     | .1      |         |         |         |         |         |      | 6.2   | 10.9                  |
| SSE                     |       | .5    | 1.6    | 1.6     |         |         |         |         |         |         |      | 3.7   | 10.3                  |
| S                       |       | 1.0   | 3.4    | 4.7     |         |         |         |         |         |         |      | 9.1   | 10.9                  |
| SSW                     |       | .5    | 1.1    | 2.5     | .1      |         |         |         |         |         |      | 4.2   | 11.3                  |
| SW                      | .1    | .6    | 2.5    | 5.3     | 1.3     |         |         |         |         |         |      | 9.8   | 12.4                  |
| WSW                     |       | .4    | 2.1    | 6.1     | 1.8     | .4      |         |         |         |         |      | 10.8  | 13.3                  |
| W                       | .1    | .9    | 2.5    | 6.4     | 2.6     | .1      |         |         |         |         |      | 12.5  | 12.9                  |
| WNW                     |       | .4    | 1.3    | 3.8     | .7      |         |         |         |         |         |      | 6.2   | 12.3                  |
| NW                      |       |       | 3.1    | 5.4     | 1.5     | .1      |         |         |         |         |      | 10.0  | 12.7                  |
| NNW                     | .1    | .6    | 2.8    | 2.9     | .4      |         |         |         |         |         |      | 6.9   | 11.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .2    |                       |
|                         | .9    | 8.8   | 30.4   | 48.9    | 10.2    | .6      |         |         |         |         |      | 100.0 | 11.6                  |

TOTAL NUMBER OF OBSERVATIONS

816

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

### PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.5   | 3.6    | 3.2     | .1      |         |         |         |         |         |      | 8.3   | 10.0                  |
| NNE                     | .1    | .7    | 1.6    | 1.1     |         |         |         |         |         |         |      | 3.6   | 9.2                   |
| NE                      | .1    | .6    | 1.0    | 1.2     |         |         |         |         |         |         |      | 2.9   | 9.4                   |
| ENE                     | .1    | .4    | .4     | .4      |         |         |         |         |         |         |      | 1.2   | 8.2                   |
| E                       |       | .5    | 1.7    | 1.0     |         |         |         |         |         |         |      | 3.2   | 9.5                   |
| ESE                     |       | .4    | 1.2    | 2.0     |         |         |         |         |         |         |      | 3.6   | 10.8                  |
| SE                      | .1    | 1.0   | 2.9    | 2.3     | .2      |         |         |         |         |         |      | 6.6   | 10.2                  |
| SSE                     |       | 1.1   | 1.6    | .9      | .1      |         |         |         |         |         |      | 3.7   | 9.2                   |
| S                       | .1    | .9    | 3.9    | 3.3     | .4      |         |         |         |         |         |      | 8.6   | 10.3                  |
| SSW                     |       |       | 1.7    | 2.9     | .1      |         |         |         |         |         |      | 4.8   | 11.9                  |
| SW                      | .4    | .2    | 1.8    | 3.9     | 1.8     |         |         |         |         |         |      | 8.2   | 12.8                  |
| WSW                     |       | .1    | 1.8    | 4.6     | 1.1     | .4      | .1      |         |         |         |      | 8.3   | 13.8                  |
| W                       | .2    | .5    | 2.5    | 6.6     | 2.1     | .4      |         |         |         |         |      | 12.3  | 13.3                  |
| WNW                     |       | .1    | 2.1    | 4.2     | 1.3     |         |         |         |         |         |      | 7.7   | 13.0                  |
| NW                      |       | 1.0   | 2.9    | 5.5     | .7      | .2      |         |         |         |         |      | 10.4  | 11.9                  |
| NNW                     |       | .4    | 1.7    | 3.3     | .9      |         |         |         |         |         |      | 6.3   | 12.3                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .2    |                       |
|                         | 1.2   | 9.3   | 32.5   | 46.6    | 9.0     | 1.0     | .1      |         |         |         |      | 100.0 | 11.5                  |

TOTAL NUMBER OF OBSERVATIONS

815

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 3.2   | 5.6    | 2.3     |         |         |         |         |         |         |      | 11.3  | 8.3                   |
| NNE                     |       | .4    | 2.6    | 1.9     | .1      |         |         |         |         |         |      | 5.0   | 9.7                   |
| NE                      | .1    | 1.7   | 3.2    | .2      |         |         |         |         |         |         |      | 5.2   | 7.5                   |
| ENE                     | .1    | .5    | .9     | .2      |         |         |         |         |         |         |      | 1.7   | 7.7                   |
| E                       |       | 1.7   | 2.7    | .7      |         |         |         |         |         |         |      | 5.1   | 7.7                   |
| ESE                     | .1    | 1.2   | 1.7    | 1.5     | .1      |         |         |         |         |         |      | 4.6   | 9.4                   |
| SE                      | .2    | .7    | 1.8    | 3.4     | .2      |         |         |         |         |         |      | 6.5   | 10.8                  |
| SSE                     |       | 1.0   | 1.2    | .7      |         |         |         |         |         |         |      | 2.9   | 8.5                   |
| S                       | .1    | 1.6   | 2.9    | 1.5     | .1      |         |         |         |         |         |      | 6.2   | 8.8                   |
| SSW                     |       | 1.7   | 2.1    | 1.2     | .1      |         |         |         |         |         |      | 5.1   | 8.6                   |
| SW                      | .2    | 1.0   | 1.5    | 2.9     | .1      | .1      |         |         |         |         |      | 5.8   | 10.7                  |
| WSW                     | .1    | .7    | 1.3    | 2.4     | .5      | .2      |         |         |         |         |      | 5.4   | 11.8                  |
| W                       | .2    | 1.1   | 3.0    | 4.8     | 1.1     | .1      |         |         |         |         |      | 10.4  | 11.5                  |
| WNW                     | .1    | .6    | 2.9    | 3.5     | .7      |         |         |         |         |         |      | 7.9   | 11.4                  |
| NW                      | .1    | .9    | 3.2    | 5.6     | 1.2     |         |         |         |         |         |      | 11.0  | 11.7                  |
| NNW                     |       | .5    | 1.6    | 2.4     | .2      |         |         |         |         |         |      | 4.8   | 11.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.1   |                       |
|                         | 1.8   | 18.4  | 38.1   | 35.4    | 4.6     | .5      |         |         |         |         |      | 100.0 | 9.9                   |

TOTAL NUMBER OF OBSERVATIONS

821

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

12.250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

MAR

MONTH

ALL WEATHER

CLASS

2100-2300

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 2.9   | 2.8    | .9      |         |         |         |         |         |         |      | 6.7   | 7.3                   |
| NNE                     |       | 1.6   | 1.8    | .5      |         |         |         |         |         |         |      | 3.9   | 7.3                   |
| NE                      |       | 1.7   | 3.1    | .9      |         |         |         |         |         |         |      | 5.6   | 7.8                   |
| ENE                     |       | .6    | 1.8    | .4      |         |         |         |         |         |         |      | 2.8   | 8.3                   |
| E                       | .2    | 2.0   | 2.3    | 1.3     |         |         |         |         |         |         |      | 5.9   | 8.0                   |
| ESE                     | .1    | 1.2   | 3.9    | 2.6     | .1      |         |         |         |         |         |      | 7.9   | 9.4                   |
| SE                      | .1    | 1.0   | 3.3    | 2.8     | .4      |         |         |         |         |         |      | 7.6   | 10.4                  |
| SSE                     | .1    | .5    | 1.2    | 1.1     |         |         |         |         |         |         |      | 2.9   | 9.4                   |
| S                       |       | 2.7   | 4.0    | 2.2     | .1      |         |         |         |         |         |      | 9.0   | 8.9                   |
| SSW                     | .1    | 1.2   | 2.6    | .6      |         |         |         |         |         |         |      | 4.5   | 7.9                   |
| SW                      |       | 1.1   | 2.0    | .7      | .1      |         |         |         |         |         |      | 3.9   | 9.2                   |
| WSW                     |       | 1.1   | 2.7    | 2.0     | .2      |         |         |         |         |         |      | 6.0   | 9.8                   |
| W                       | .2    | 2.8   | 2.9    | 4.3     | .6      |         |         |         |         |         |      | 10.9  | 9.9                   |
| WNW                     |       | .6    | 2.6    | 2.8     |         |         |         |         |         |         |      | 6.0   | 10.4                  |
| NW                      | .4    | 2.0   | 3.1    | 4.3     | .5      | .1      |         |         |         |         |      | 10.3  | 10.2                  |
| NNW                     |       | 1.0   | 1.7    | 1.1     | .6      |         |         |         |         |         |      | 4.4   | 10.3                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.6   |                       |
|                         | 1.5   | 24.0  | 41.8   | 28.4    | 2.7     | .1      |         |         |         |         |      | 100.0 | 9.0                   |

TOTAL NUMBER OF OBSERVATIONS

818



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 2.0   | 3.0    | 1.6     | .3      |         |         |         |         |         |      | 7.1   | 8.9                   |
| NNE                     | .1    | .6    | 1.1    | .7      | .0      |         |         |         |         |         |      | 2.5   | 8.5                   |
| NE                      | .1    | 1.4   | 1.8    | .6      | .0      |         |         |         |         |         |      | 3.9   | 8.0                   |
| ENE                     | .1    | .8    | 1.3    | .4      |         |         |         |         |         |         |      | 2.4   | 7.7                   |
| E                       | .1    | 1.4   | 2.8    | 1.2     | .1      |         |         |         |         |         |      | 5.6   | 8.6                   |
| ESE                     | .1    | .8    | 2.5    | 2.1     | .1      |         |         |         |         |         |      | 5.7   | 9.7                   |
| SE                      | .1    | 1.1   | 3.0    | 3.4     | .3      |         |         |         |         |         |      | 7.9   | 10.5                  |
| SSE                     | .1    | .7    | 1.7    | 1.3     | .1      |         |         |         |         |         |      | 3.8   | 9.6                   |
| S                       | .1    | 1.8   | 4.5    | 2.6     | .1      |         |         |         |         |         |      | 9.1   | 9.2                   |
| SSW                     | .1    | .8    | 2.0    | 1.5     | .1      |         |         |         |         |         |      | 4.3   | 9.6                   |
| SW                      | .2    | 1.2   | 2.3    | 3.0     | .6      | .0      |         |         |         |         |      | 7.4   | 10.7                  |
| WSW                     | .1    | .6    | 2.0    | 2.9     | .6      | .1      | .0      |         |         |         |      | 6.4   | 11.5                  |
| W                       | .1    | 1.7   | 4.0    | 4.9     | 1.2     | .1      | .0      |         |         |         |      | 12.0  | 11.1                  |
| WNW                     | .0    | .7    | 2.3    | 3.1     | .5      |         |         |         |         |         |      | 6.7   | 11.2                  |
| NW                      | .1    | 1.0   | 2.6    | 4.5     | .7      | .1      |         |         |         |         |      | 8.9   | 11.4                  |
| NNW                     | .1    | .9    | 1.8    | 2.0     | .3      |         |         |         |         |         |      | 5.0   | 10.2                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.2   |                       |
|                         | 1.5   | 17.6  | 38.6   | 35.7    | 5.0     | .4      | .0      |         |         |         |      | 100.0 | 10.0                  |

TOTAL NUMBER OF OBSERVATIONS

6533

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72-250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

APR

MONTH

ALL WEATHER

CLASS

0000-0200

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 2.7   | 2.8    | .9      |         |         |         |         |         |         |      | 5.8   | 7.7                   |
| NNE                     | .1    | .3    | 1.5    |         |         |         |         |         |         |         |      | 1.9   | 7.5                   |
| NE                      | .3    | 1.5   | 2.3    |         |         |         |         |         |         |         |      | 4.0   | 6.5                   |
| ENE                     |       | 1.0   | 2.1    | .4      |         |         |         |         |         |         |      | 3.5   | 7.8                   |
| E                       | .3    | 2.0   | 4.9    | .6      |         |         |         |         |         |         |      | 7.8   | 7.2                   |
| ESE                     |       | 2.4   | 1.9    | 1.0     | .1      |         |         |         |         |         |      | 5.4   | 8.1                   |
| SE                      | .4    | 1.8   | 2.4    | 2.4     | .1      |         |         |         |         |         |      | 7.0   | 9.1                   |
| SSE                     | .3    | .8    | 1.9    | .4      |         |         |         |         |         |         |      | 3.3   | 7.3                   |
| S                       | .5    | 3.0   | 4.5    | 1.8     |         |         |         |         |         |         |      | 9.8   | 7.9                   |
| SSW                     | .1    | 2.0   | 1.8    | .4      | .3      |         |         |         |         |         |      | 4.5   | 7.5                   |
| SW                      | .4    | 3.0   | 4.3    | 1.8     |         | .1      |         |         |         |         |      | 9.5   | 8.2                   |
| WSW                     | .3    | 1.1   | 2.0    | 2.3     | .3      |         |         |         |         |         |      | 5.9   | 9.9                   |
| W                       | .3    | 3.0   | 3.0    | 2.3     | .4      | .4      | .1      |         |         |         |      | 9.4   | 9.5                   |
| WNW                     | .1    | 1.1   | 3.1    | 1.0     | .1      |         |         |         |         |         |      | 5.5   | 8.9                   |
| NW                      | .1    | 2.4   | 2.1    | 1.9     | .3      | .1      |         |         |         |         |      | 6.9   | 9.3                   |
| NNW                     | .3    | 1.5   | 1.1    | .8      | .4      |         |         |         |         |         |      | 4.0   | 8.9                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 5.7   |                       |
|                         | 3.4   | 28.9  | 41.7   | 17.7    | 1.9     | .6      | .1      |         |         |         |      | 100.0 | 7.9                   |

TOTAL NUMBER OF OBSERVATIONS

796

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725253  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

APR

MONTH

ALL WEATHER

CLASS

0300-0500

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 1.4   | 1.8    | 1.1     |         |         |         |         |         |         |      | 4.5   | 8.6                   |
| NNE                     | .1    | .6    | .9     | .4      |         |         |         |         |         |         |      | 2.0   | 7.8                   |
| NE                      |       | 1.3   | 1.9    | .1      |         |         |         |         |         |         |      | 3.3   | 7.3                   |
| ENE                     |       | .9    | 1.1    | .1      |         |         |         |         |         |         |      | 2.2   | 7.0                   |
| E                       | .3    | 2.4   | 2.9    | 1.4     |         |         |         |         |         |         |      | 7.0   | 7.9                   |
| ESE                     | .1    | 1.4   | 3.3    | 1.5     |         |         |         |         |         |         |      | 6.4   | 8.7                   |
| SE                      | .1    | 2.0   | 3.1    | 1.4     | .1      |         |         |         |         |         |      | 6.8   | 8.2                   |
| SSE                     |       | .4    | 2.3    | .8      |         |         |         |         |         |         |      | 3.4   | 8.9                   |
| S                       | .1    | 3.8   | 6.5    | 1.8     |         |         |         |         |         |         |      | 12.2  | 8.0                   |
| SSW                     |       | 2.6   | 1.9    | 1.0     |         |         |         |         |         |         |      | 5.5   | 7.6                   |
| SW                      | .5    | 2.6   | 3.3    | 1.3     | .3      |         |         |         |         |         |      | 7.9   | 8.0                   |
| WSW                     | .4    | 1.8   | 2.4    | 1.8     | .1      | .1      |         |         |         |         |      | 6.6   | 9.0                   |
| W                       |       | 2.9   | 2.2    | 2.6     | .6      | .4      |         |         |         |         |      | 8.7   | 10.1                  |
| WNW                     | .5    | 1.7   | 2.0    | .6      | .4      |         |         |         |         |         |      | 5.2   | 8.1                   |
| NW                      | .3    | 2.7   | 2.0    | 2.8     | .6      |         |         |         |         |         |      | 8.4   | 9.6                   |
| NNW                     | .1    | 1.7   | .9     | 1.3     | .3      |         |         |         |         |         |      | 4.2   | 9.2                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 5.6   |                       |
|                         | 2.7   | 30.1  | 38.6   | 20.0    | 2.4     | .5      |         |         |         |         |      | 100.0 | 8.0                   |

TOTAL NUMBER OF OBSERVATIONS

784

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72525  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 1.1   | 1.9    | 1.9     | .4      |         |         |         |         |         |      | 5.5   | 10.0                  |
| NNE                     |       | .8    | 1.4    | .1      |         |         |         |         |         |         |      | 2.3   | 7.3                   |
| NE                      | .1    | 1.1   | 1.3    | .6      | .1      |         |         |         |         |         |      | 3.3   | 7.8                   |
| ENE                     |       | .9    | 1.5    | .4      |         |         |         |         |         |         |      | 2.8   | 8.0                   |
| E                       |       | 1.1   | 2.8    | .9      | .1      |         |         |         |         |         |      | 4.9   | 8.8                   |
| ESE                     | .1    | 1.5   | 2.6    | 2.1     |         |         |         |         |         |         |      | 6.4   | 9.1                   |
| SE                      | .3    | 1.3   | 4.1    | 1.8     | .1      |         |         |         |         |         |      | 7.5   | 8.9                   |
| SSE                     | .1    | .8    | 2.0    | .6      |         |         |         |         |         |         |      | 3.5   | 8.2                   |
| S                       | .1    | 3.3   | 6.9    | 2.3     | .1      |         |         |         |         |         |      | 12.7  | 8.3                   |
| SSW                     | .1    | 1.4   | 2.3    | 1.6     |         |         |         |         |         |         |      | 5.4   | 8.9                   |
| SW                      | .1    | 2.8   | 3.5    | 2.4     |         |         |         |         |         |         |      | 8.8   | 8.7                   |
| WSW                     | .4    | 1.9   | 1.8    | 1.1     | .5      | .1      | .1      |         |         |         |      | 5.9   | 9.4                   |
| W                       | .3    | 3.1   | 2.8    | 4.1     | .6      | .1      |         |         |         |         |      | 11.0  | 10.0                  |
| WNW                     | .3    | 1.5   | 1.5    | .8      | .3      | .3      |         |         |         |         |      | 4.5   | 9.0                   |
| NW                      |       | 1.1   | 2.5    | 1.4     | .4      |         |         |         |         |         |      | 5.4   | 9.7                   |
| NNW                     | .1    | 1.9   | 2.3    | 2.5     |         |         |         |         |         |         |      | 6.8   | 9.4                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.4   |                       |
|                         | 2.3   | 25.5  | 41.0   | 24.6    | 2.6     | .5      | .1      |         |         |         |      | 100.0 | 8.7                   |

TOTAL NUMBER OF OBSERVATIONS

797

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.6   | 4.6    | 3.8     | .3      |         |         |         |         |         |      | 10.3  | 9.7                   |
| NNE                     |       | .5    | 1.3    | .5      |         |         |         |         |         |         |      | 2.3   | 8.8                   |
| NE                      |       | 1.1   | 1.1    | 1.4     | .3      |         |         |         |         |         |      | 3.9   | 9.6                   |
| ENE                     |       | .6    | .5     | .4      |         |         |         |         |         |         |      | 1.5   | 7.8                   |
| E                       | .3    | .8    | 2.1    | 1.8     | .1      |         |         |         |         |         |      | 5.0   | 9.4                   |
| ESE                     |       | .9    | 1.0    | 2.5     | .6      |         |         |         |         |         |      | 5.0   | 11.4                  |
| SE                      |       | 1.3   | 1.6    | 3.1     |         |         |         |         |         |         |      | 6.0   | 10.4                  |
| SSE                     |       | .5    | 1.4    | 1.3     |         |         |         |         |         |         |      | 3.1   | 9.8                   |
| S                       | .1    | .9    | 3.5    | 2.5     |         |         |         |         |         |         |      | 7.0   | 9.7                   |
| SSW                     |       | .8    | 1.4    | 2.6     | .3      |         |         |         |         |         |      | 5.0   | 10.8                  |
| SW                      |       | 1.4   | 2.1    | 6.6     | .6      |         |         |         |         |         |      | 10.8  | 11.7                  |
| WSW                     | .1    | .8    | 1.5    | 4.6     | 1.1     |         |         |         |         |         |      | 8.1   | 12.2                  |
| W                       | .1    | 1.0   | 2.4    | 4.5     | 1.0     | .6      |         |         |         |         |      | 9.6   | 12.5                  |
| WNW                     |       | .1    | 1.6    | 2.9     | .3      | .6      |         |         |         |         |      | 5.5   | 13.2                  |
| NW                      | .1    | 1.8   | 1.6    | 5.0     | .4      |         |         |         |         |         |      | 8.9   | 10.6                  |
| NNW                     | .1    | .5    | 1.8    | 3.6     | 1.0     |         |         |         |         |         |      | 7.0   | 12.1                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .9    |                       |
|                         | .9    | 14.4  | 29.6   | 47.1    | 5.9     | 1.3     |         |         |         |         |      | 100.0 | 10.9                  |

TOTAL NUMBER OF OBSERVATIONS

798

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725250

YOUNGSTOWN MAP OH

73-81

APR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1200-1400

CLASS

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.3   | 5.1    | 3.8     | .5      |         |         |         |         |         |      | 10.7  | 10.2                  |
| NNE                     | .1    | .4    | 1.0    | 1.4     | .1      |         |         |         |         |         |      | 3.0   | 10.6                  |
| NE                      |       | .4    | .9     | 1.1     |         |         |         |         |         |         |      | 2.4   | 10.3                  |
| ENE                     |       | .1    | .8     | .3      |         |         |         |         |         |         |      | 1.1   | 8.4                   |
| E                       | .1    | .1    | 1.1    | .8      |         |         |         |         |         |         |      | 2.1   | 9.7                   |
| ESE                     |       | .6    | .5     | 1.3     | .1      | .1      |         |         |         |         |      | 2.6   | 11.2                  |
| SE                      |       | 1.3   | 1.8    | 3.3     | .4      |         |         |         |         |         |      | 6.6   | 11.0                  |
| SSE                     |       | .6    | .5     | 1.1     | .1      |         |         |         |         |         |      | 2.4   | 9.7                   |
| S                       | .1    | 1.0   | 3.6    | 2.3     |         |         |         |         |         |         |      | 7.0   | 9.6                   |
| SSW                     |       | .3    | 1.0    | 3.3     | .4      | .1      | .1      |         |         |         |      | 5.1   | 12.7                  |
| SW                      |       | 1.0   | 2.1    | 5.3     | .9      |         |         |         |         |         |      | 9.3   | 12.0                  |
| WSW                     |       | .5    | .9     | 3.6     | 1.8     | .5      |         |         |         |         |      | 7.3   | 14.3                  |
| W                       |       | 1.9   | 3.1    | 7.1     | 1.0     | .4      | .1      |         |         |         |      | 13.7  | 11.9                  |
| WNW                     |       | .1    | 1.0    | 4.3     | .4      | .3      | .1      |         |         |         |      | 6.1   | 13.4                  |
| NW                      |       | .8    | 3.3    | 7.9     | .6      | .4      |         |         |         |         |      | 12.9  | 12.6                  |
| NNW                     |       | .3    | 2.0    | 4.0     | 1.3     |         |         |         |         |         |      | 7.5   | 12.7                  |
| VABBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .1    |                       |
|                         | .4    | 10.5  | 28.7   | 50.6    | 7.5     | 1.8     | .4      |         |         |         |      | 100.0 | 11.7                  |

TOTAL NUMBER OF OBSERVATIONS

798

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

723257  
STATIONYOUNGSTOWN MAP OH  
STATION NAME73-81  
YEARSAPR  
MONTHALL WEATHER  
CLASS1500-1700  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 1.6   | 3.9    | 6.3     | .5      |         |         |         |         |         |      | 12.4  | 10.9                  |
| NNE                     |       | .1    | 1.3    | 1.1     | .1      |         |         |         |         |         |      | 2.6   | 11.6                  |
| NE                      | .1    | .9    | 1.3    | 1.4     | .1      |         |         |         |         |         |      | 3.8   | 9.4                   |
| ENE                     |       | .4    | .4     |         |         |         |         |         |         |         |      | .8    | 7.5                   |
| E                       |       | .6    | 1.1    |         |         |         |         |         |         |         |      | 1.8   | 7.1                   |
| ESE                     | .1    | .4    | .4     | 1.4     | .1      |         |         |         |         |         |      | 2.4   | 11.0                  |
| SE                      |       | .6    | 1.9    | 2.1     | .8      |         |         |         |         |         |      | 5.4   | 11.5                  |
| SSE                     |       | .1    | 1.1    | .5      |         |         |         |         |         |         |      | 1.8   | 9.6                   |
| S                       |       | 1.1   | 3.1    | 2.6     |         |         |         |         |         |         |      | 6.9   | 9.6                   |
| SSW                     |       | .5    | 1.6    | 2.3     |         | .1      |         |         |         |         |      | 4.5   | 11.1                  |
| SW                      |       | .1    | 2.5    | 4.8     | .9      |         |         |         |         |         |      | 8.3   | 12.3                  |
| WSW                     | .1    | 1.0   | 1.9    | 3.8     | 2.0     | .3      |         |         |         |         |      | 9.0   | 12.9                  |
| W                       |       | .8    | 2.5    | 5.5     | 1.6     | .4      | .1      |         |         |         |      | 10.9  | 13.0                  |
| WNW                     | .1    | .3    | 1.5    | 3.9     | .4      | .3      |         |         |         |         |      | 6.4   | 12.4                  |
| NW                      | .1    | 1.0   | 2.9    | 7.0     | 1.0     | .6      |         |         |         |         |      | 12.7  | 12.6                  |
| NNW                     | .1    | .5    | 2.0    | 6.3     | 1.1     |         |         |         |         |         |      | 10.1  | 12.8                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .3    |                       |
|                         | .9    | 10.1  | 29.4   | 49.0    | 8.7     | 1.6     | .1      |         |         |         |      | 100.0 | 11.7                  |

TOTAL NUMBER OF OBSERVATIONS

796

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72°25'  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

APR

MONTH

ALL WEATHER

CLASS

1800-2000

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 3.4   | 9.3    | 4.0     | .1      |         |         |         |         |         |      | 16.8  | 8.8                   |
| NNE                     |       | .5    | 3.1    | 1.4     |         |         |         |         |         |         |      | 5.0   | 9.1                   |
| NE                      |       | 1.3   | 2.9    | .9      | .3      |         |         |         |         |         |      | 5.3   | 8.6                   |
| ENE                     |       | .5    | .5     |         |         |         |         |         |         |         |      | 1.0   | 6.8                   |
| E                       |       | 1.0   | 1.0    | .1      |         |         |         |         |         |         |      | 2.1   | 7.1                   |
| ESE                     |       | .4    | 1.1    | 1.3     |         |         |         |         |         |         |      | 2.8   | 10.1                  |
| SE                      |       | 1.4   | 1.8    | 1.3     | .6      |         |         |         |         |         |      | 5.0   | 10.3                  |
| SSE                     |       | .9    | 1.1    | .3      | .4      |         |         |         |         |         |      | 2.6   | 8.7                   |
| S                       | .4    | 3.8   | 2.1    | 1.1     |         |         |         |         |         |         |      | 7.4   | 7.1                   |
| SSW                     | .3    | 1.4   | 1.5    | 1.4     | .1      |         |         |         |         |         |      | 4.6   | 8.9                   |
| SW                      |       | 2.0   | 3.4    | 1.9     | .1      |         |         |         |         |         |      | 7.4   | 9.0                   |
| WSW                     | .1    | .6    | 1.4    | 2.4     | .3      | .1      |         |         |         |         |      | 4.9   | 11.3                  |
| W                       |       | 1.4   | 2.3    | 3.3     | .6      | .1      |         |         |         |         |      | 7.6   | 11.0                  |
| WNW                     | .1    | 1.5   | 2.6    | 2.4     |         | .4      |         |         |         |         |      | 7.0   | 10.2                  |
| NW                      | .3    | 1.3   | 3.6    | 4.1     | 1.3     |         |         |         |         |         |      | 10.5  | 10.8                  |
| NNW                     | .4    | 1.0   | 2.3    | 3.6     | .9      |         |         |         |         |         |      | 8.1   | 10.6                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.8   |                       |
|                         | 1.5   | 22.2  | 40.0   | 29.3    | 4.6     | .6      |         |         |         |         |      | 100.0 | 9.4                   |

TOTAL NUMBER OF OBSERVATIONS

798



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725257

YOUNGSTOWN MAP OH

73-81

APR

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

2100-2300

CLAS

HOURS (L.S.T.)

CORRECTION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 4.5   | 4.0    | 1.0     |         |         |         |         |         |         |      | 9.8   | 7.1                   |
| NNE                     | .3    | .9    | 1.9    | .5      |         |         |         |         |         |         |      | 3.5   | 7.8                   |
| NE                      | .3    | 2.7   | 5.4    | .4      |         |         |         |         |         |         |      | 8.7   | 7.1                   |
| ENE                     |       | .8    | 2.0    | .1      |         |         |         |         |         |         |      | 2.9   | 6.9                   |
| E                       | .3    | 2.4   | 1.9    | .1      |         |         |         |         |         |         |      | 4.7   | 6.5                   |
| ESE                     |       | 1.6   | 2.1    | 2.0     |         |         |         |         |         |         |      | 5.8   | 9.1                   |
| SE                      |       | 2.7   | 1.6    | 1.4     | .6      | .1      |         |         |         |         |      | 6.4   | 9.5                   |
| SSE                     |       | 1.9   | 1.6    | .4      | .1      |         |         |         |         |         |      | 4.0   | 7.2                   |
| S                       | .3    | 3.7   | 3.4    | 1.1     | .1      |         |         |         |         |         |      | 8.6   | 7.6                   |
| SSW                     | .3    | 2.0   | 1.8    | .6      | .1      |         |         |         |         |         |      | 4.8   | 8.1                   |
| SW                      |       | 1.5   | 2.8    | 1.9     |         |         |         |         |         |         |      | 6.2   | 9.1                   |
| WSW                     | .1    | .4    | 1.4    | 1.6     | .3      | .1      |         |         |         |         |      | 3.9   | 11.0                  |
| W                       | .3    | 2.5   | 3.4    | 2.7     | .5      | .4      |         |         |         |         |      | 9.7   | 10.0                  |
| WNW                     | .4    | 1.3   | 1.6    | 1.8     | .1      | .3      |         |         |         |         |      | 5.4   | 9.7                   |
| NW                      | .3    | 2.0   | 2.0    | 1.9     |         | .3      |         |         |         |         |      | 6.4   | 9.3                   |
| NNW                     | .3    | 1.4   | 2.1    | 1.1     | .3      |         |         |         |         |         |      | 5.2   | 8.9                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.8   |                       |
|                         | 2.8   | 32.2  | 39.3   | 18.7    | 2.1     | 1.1     |         |         |         |         |      | 100.0 | 8.1                   |

TOTAL NUMBER OF OBSERVATIONS

792

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72050  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 2.1   | 4.2    | 2.8     | .2      |         |         |         |         |         |      | 9.5   | 9.2                   |
| NNE                     | .1    | .5    | 1.5    | .7      | .0      |         |         |         |         |         |      | 2.8   | 8.9                   |
| NE                      | .1    | 1.3   | 2.1    | .7      | .1      |         |         |         |         |         |      | 4.3   | 8.1                   |
| ENE                     |       | .6    | 1.1    | .2      |         |         |         |         |         |         |      | 2.0   | 7.5                   |
| E                       | .1    | 1.3   | 2.2    | .7      | .0      |         |         |         |         |         |      | 4.4   | 7.9                   |
| ESE                     | .0    | 1.1   | 1.6    | 1.6     | .1      | .0      |         |         |         |         |      | 4.6   | 9.5                   |
| SE                      | .1    | 1.5   | 2.3    | 2.1     | .3      | .0      |         |         |         |         |      | 6.4   | 9.8                   |
| SSE                     | .0    | .7    | 1.5    | .7      | .1      |         |         |         |         |         |      | 3.0   | 8.5                   |
| S                       | .2    | 2.6   | 4.2    | 1.9     | .0      |         |         |         |         |         |      | 8.9   | 8.4                   |
| SSW                     | .1    | 1.4   | 1.7    | 1.7     | .1      | .0      | .0      |         |         |         |      | 4.9   | 9.5                   |
| SW                      | .1    | 1.8   | 3.0    | 3.2     | .3      | .0      |         |         |         |         |      | 8.5   | 10.0                  |
| WSW                     | .2    | 1.0   | 1.7    | 2.7     | .8      | .2      | .0      |         |         |         |      | 6.5   | 11.5                  |
| W                       | .1    | 2.1   | 2.7    | 4.0     | .8      | .3      | .0      |         |         |         |      | 10.1  | 11.1                  |
| WNW                     | .2    | .9    | 1.9    | 2.2     | .2      | .3      | .0      |         |         |         |      | 5.7   | 10.7                  |
| NW                      | .1    | 1.6   | 2.5    | 4.0     | .6      | .2      |         |         |         |         |      | 9.0   | 10.9                  |
| NNW                     | .2    | 1.1   | 1.8    | 2.9     | .6      |         |         |         |         |         |      | 6.6   | 11.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.7   |                       |
|                         | 1.8   | 21.7  | 36.0   | 32.2    | 4.5     | 1.0     | .1      |         |         |         |      | 100.0 | 9.5                   |

TOTAL NUMBER OF OBSERVATIONS

6359

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725251

STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

MAY

MONTH

ALL WEATHER

CLASS

0000-0200

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | 2.1   | 2.1    | .8      |         |         |         |         |         |         |      | 5.3   | 7.2                   |
| NNE                     | .3    | .6    | .8     | .1      |         |         |         |         |         |         |      | 1.8   | 6.4                   |
| NE                      | .4    | 1.8   | 2.2    | .3      |         |         |         |         |         |         |      | 4.7   | 6.9                   |
| ENE                     | .3    | 1.3   | 2.2    | .1      |         |         |         |         |         |         |      | 3.9   | 6.9                   |
| E                       | .6    | 5.2   | 4.3    | .5      |         |         |         |         |         |         |      | 10.6  | 6.5                   |
| ESE                     | .1    | 1.8   | 3.6    | .8      |         |         |         |         |         |         |      | 6.4   | 7.7                   |
| SE                      | .5    | 2.9   | 5.6    | 1.3     | .3      |         |         |         |         |         |      | 10.5  | 8.0                   |
| SSE                     | .1    | 1.0   | 1.8    | 1.0     |         |         |         |         |         |         |      | 4.0   | 8.5                   |
| S                       | .1    | 2.7   | 5.2    | .8      |         |         |         |         |         |         |      | 8.8   | 7.4                   |
| SSW                     | .5    | 1.7   | 2.2    | .5      |         |         |         |         |         |         |      | 4.9   | 7.1                   |
| SW                      | .6    | 3.8   | 3.2    | .3      |         |         |         |         |         |         |      | 7.9   | 6.7                   |
| WSW                     | .1    | 1.9   | .9     | .3      |         |         |         |         |         |         |      | 3.2   | 6.3                   |
| W                       | .9    | 2.6   | 2.2    | 1.7     |         |         |         |         |         |         |      | 7.4   | 7.7                   |
| WNW                     | .1    | 2.2   | 1.3    | .4      |         |         |         |         |         |         |      | 4.0   | 6.9                   |
| NW                      |       | 3.5   | 2.6    |         |         |         |         |         |         |         |      | 6.1   | 6.5                   |
| NNW                     | .1    | 1.0   | .5     | .1      |         |         |         |         |         |         |      | 1.8   | 6.4                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 8.6   |                       |
|                         | 5.3   | 36.2  | 40.7   | 8.9     | .3      |         |         |         |         |         |      | 100.0 | 6.6                   |

TOTAL NUMBER OF OBSERVATIONS

771

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 1.7   | 1.7    | .9      |         |         |         |         |         |         |      | 4.5   | 7.8                   |
| NNE                     |       | .5    | .8     |         |         |         |         |         |         |         |      | 1.3   | 6.6                   |
| NE                      | .4    | .7    | 2.4    | .5      |         |         |         |         |         |         |      | 3.9   | 7.8                   |
| ENE                     |       | 2.0   | 2.8    | .1      |         |         |         |         |         |         |      | 4.9   | 6.8                   |
| E                       | .4    | 4.9   | 3.8    | .3      |         |         |         |         |         |         |      | 9.3   | 6.4                   |
| ESE                     | .8    | 2.6   | 3.8    | .8      |         |         |         |         |         |         |      | 8.0   | 7.2                   |
| SE                      |       | 3.0   | 5.4    | 2.0     |         |         |         |         |         |         |      | 10.4  | 8.1                   |
| SSE                     |       | 1.3   | 3.5    | .7      |         |         |         |         |         |         |      | 5.5   | 8.0                   |
| S                       | .1    | 2.9   | 4.9    | .4      |         |         |         |         |         |         |      | 8.3   | 7.3                   |
| SSW                     | .4    | 2.4   | 2.5    | .9      |         |         |         |         |         |         |      | 6.2   | 7.2                   |
| SW                      | .7    | 2.5   | 2.9    | .9      |         |         |         |         |         |         |      | 7.0   | 7.4                   |
| WSW                     | .5    | .9    | 1.7    | .5      | .1      |         |         |         |         |         |      | 3.8   | 8.2                   |
| W                       | .5    | 3.0   | 2.1    | .9      | .1      |         |         |         |         |         |      | 6.7   | 7.4                   |
| WNW                     | .3    | 1.3   | 1.8    | .5      |         |         |         |         |         |         |      | 3.9   | 7.5                   |
| NW                      | .4    | 2.2   | .8     | .4      |         |         |         |         |         |         |      | 3.8   | 6.2                   |
| NNW                     | .5    | 1.2   | 1.6    | .7      | .1      |         |         |         |         |         |      | 4.1   | 7.7                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 8.5   |                       |
|                         | 5.1   | 33.1  | 42.4   | 10.5    | .4      |         |         |         |         |         |      | 100.0 | 6.7                   |

TOTAL NUMBER OF OBSERVATIONS 762

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

MAY

MONTH

ALL WEATHER

CLASS

0600-0800

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 14 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | 1.6   | 1.7    | 1.1     | .1      |         |         |         |         |         |      | 4.9   | 8.5                   |
| NNE                     |       | 1.1   | 1.1    |         |         |         |         |         |         |         |      | 2.2   | 6.9                   |
| NE                      | .2    | 1.5   | 2.7    | .6      |         |         |         |         |         |         |      | 5.0   | 7.5                   |
| ENE                     | .2    | 1.2   | 1.7    | .2      |         |         |         |         |         |         |      | 3.4   | 6.7                   |
| E                       | .2    | 3.0   | 3.2    | 1.0     | .1      |         |         |         |         |         |      | 7.5   | 7.5                   |
| ESE                     |       | 1.1   | 3.6    | 1.5     |         |         |         |         |         |         |      | 6.2   | 8.7                   |
| SE                      | .4    | 2.3   | 5.0    | 1.3     |         |         |         |         |         |         |      | 9.0   | 8.0                   |
| SSE                     | .1    | .9    | 3.9    | .7      |         |         |         |         |         |         |      | 5.6   | 8.4                   |
| S                       | .6    | 2.4   | 6.9    | 1.5     |         |         |         |         |         |         |      | 11.4  | 7.8                   |
| SSW                     | .5    | 1.8   | 4.3    | .9      |         |         |         |         |         |         |      | 7.4   | 7.7                   |
| SW                      | .5    | 1.7   | 2.7    | 1.0     |         |         |         |         |         |         |      | 5.8   | 8.1                   |
| WSW                     | .1    | 1.3   | 2.4    | 1.3     |         |         |         |         |         |         |      | 5.2   | 8.5                   |
| W                       | .5    | 2.3   | 3.5    | 1.6     | .2      |         |         |         |         |         |      | 8.1   | 8.4                   |
| WNW                     | .2    | 1.5   | 1.8    | .9      |         |         |         |         |         |         |      | 4.4   | 7.8                   |
| NW                      | .2    | 1.5   | 2.2    | 1.2     |         |         |         |         |         |         |      | 5.1   | 8.1                   |
| NNW                     | .1    | 2.2   | 1.3    | 1.5     |         |         |         |         |         |         |      | 5.1   | 8.1                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.6   |                       |
|                         | 4.4   | 27.3  | 48.0   | 16.2    | .5      |         |         |         |         |         |      | 100.0 | 7.7                   |

TOTAL NUMBER OF OBSERVATIONS

823

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 1.2   | 3.6    | 2.6     | .4      |         |         |         |         |         |      | 7.9   | 9.7                   |
| NNE                     |       | .5    | 2.2    | .9      |         |         |         |         |         |         |      | 3.6   | 9.2                   |
| NE                      |       | 1.1   | 2.3    | .4      |         |         |         |         |         |         |      | 3.8   | 8.0                   |
| ENE                     |       | .6    | .4     | .4      |         |         |         |         |         |         |      | 1.4   | 7.7                   |
| E                       | .2    | 1.4   | 3.5    | .9      | .1      |         |         |         |         |         |      | 6.0   | 8.1                   |
| ESE                     |       | .4    | 1.7    | 1.4     |         |         |         |         |         |         |      | 3.5   | 9.8                   |
| SE                      | .1    | 1.2   | 4.1    | 3.2     |         |         |         |         |         |         |      | 8.6   | 9.4                   |
| SSE                     |       | .7    | 3.0    | .6      |         |         |         |         |         |         |      | 4.3   | 8.8                   |
| S                       |       | 2.1   | 4.8    | 2.3     |         |         |         |         |         |         |      | 9.2   | 8.7                   |
| SSW                     |       | 1.5   | 3.2    | 2.8     |         |         |         |         |         |         |      | 7.5   | 9.4                   |
| SW                      |       | .4    | 3.6    | 3.5     | .2      |         |         |         |         |         |      | 7.6   | 10.7                  |
| WSW                     | .1    | 1.1   | 2.1    | 1.8     | .4      |         |         |         |         |         |      | 5.5   | 10.1                  |
| W                       |       | 1.4   | 4.4    | 4.6     | .2      |         |         |         |         |         |      | 10.6  | 10.3                  |
| WNW                     |       | 1.0   | 2.2    | 2.5     | .2      |         |         |         |         |         |      | 5.9   | 10.0                  |
| NW                      |       | 1.2   | 4.3    | 3.5     | .4      |         |         |         |         |         |      | 9.4   | 10.4                  |
| NNW                     |       | .9    | 2.2    | 1.5     | .1      |         |         |         |         |         |      | 4.7   | 9.6                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .4    |                       |
|                         | .6    | 16.6  | 47.6   | 32.7    | 2.1     |         |         |         |         |         |      | 100.0 | 9.5                   |

TOTAL NUMBER OF OBSERVATIONS

811

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 02:257 YOUNGSTOWN MAP OH YEARS 73-81 MAY NORTH  
STATION NAME CLASS ALL WEATHER HOURS (L.S.T.) 1200-1400  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 2.1   | 4.3    | 5.0     | .4      |         |         |         |         |         |      | 11.8  | 10.2                  |
| NNE                     | .1    | .5    | 1.0    | .7      |         |         |         |         |         |         |      | 2.3   | 9.0                   |
| NE                      | .1    | .7    | 1.1    | .5      |         |         |         |         |         |         |      | 2.4   | 8.1                   |
| ENE                     | .1    | .2    | .9     | .6      |         |         |         |         |         |         |      | 1.8   | 8.6                   |
| E                       |       | 1.2   | 2.9    | .5      |         |         |         |         |         |         |      | 4.6   | 8.0                   |
| ESE                     |       | .4    | 1.8    | .6      | .1      |         |         |         |         |         |      | 2.9   | 9.3                   |
| SE                      | .2    | 1.1   | 2.2    | 1.8     |         |         |         |         |         |         |      | 5.4   | 9.2                   |
| SSE                     |       | .7    | 2.1    | 1.3     |         |         |         |         |         |         |      | 4.1   | 9.5                   |
| S                       |       | 1.5   | 4.0    | 2.8     |         |         |         |         |         |         |      | 8.3   | 9.3                   |
| SSW                     |       | .9    | 1.9    | 2.3     | .1      |         |         |         |         |         |      | 5.2   | 10.3                  |
| SW                      | .1    | .5    | 2.7    | 4.5     | 1.2     |         |         |         |         |         |      | 9.0   | 12.1                  |
| WSW                     | .2    | 1.7   | 2.6    | 5.4     | .7      | .1      |         |         |         |         |      | 10.0  | 11.3                  |
| W                       | .1    | 1.2   | 4.4    | 4.5     | .5      | .1      |         |         |         |         |      | 10.8  | 11.0                  |
| WNW                     | .1    | .5    | 1.7    | 2.9     | .5      |         |         |         |         |         |      | 5.7   | 11.0                  |
| NW                      |       | 1.2   | 2.9    | 3.5     | .4      |         |         |         |         |         |      | 8.0   | 10.5                  |
| NNW                     |       | .9    | 1.5    | 4.5     | .4      |         |         |         |         |         |      | 7.2   | 11.3                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .2    |                       |
|                         | 1.3   | 14.5  | 37.9   | 41.5    | 4.3     | .2      |         |         |         |         |      | 100.0 | 10.3                  |

TOTAL NUMBER OF OBSERVATIONS 821

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AT: WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

721250 STATION YOUNGSTOWN MAP OH 73-81 YEARS MAY NORTH  
1500-1700 HOURS (L.S.T.)  
ALL WEATHER CLASS  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 2.1   | 7.1    | 6.4     | .2      |         |         |         |         |         |      | 15.8  | 10.0                  |
| NNE                     | .4    | .9    | 1.5    | 2.5     | .2      |         |         |         |         |         |      | 5.4   | 10.3                  |
| NE                      |       | .9    | .5     | .6      |         |         |         |         |         |         |      | 2.0   | 8.0                   |
| ENE                     |       |       | .7     | .4      |         |         |         |         |         |         |      | 1.1   | 9.7                   |
| E                       |       | 1.1   | 2.0    | .6      |         |         |         |         |         |         |      | 3.7   | 8.2                   |
| ESE                     |       | 1.0   | 1.5    | .5      |         |         |         |         |         |         |      | 2.9   | 8.1                   |
| SE                      |       | 1.5   | 2.1    | 2.5     | .1      |         |         |         |         |         |      | 6.1   | 9.3                   |
| SSE                     |       | .6    | 1.2    | 1.3     |         |         |         |         |         |         |      | 3.2   | 9.6                   |
| S                       | .1    | 2.0   | 3.4    | 1.5     | .1      |         |         |         |         |         |      | 7.1   | 8.6                   |
| SSW                     |       | .4    | 1.3    | 2.2     | .2      |         |         |         |         |         |      | 4.2   | 11.5                  |
| SW                      |       | .7    | 3.2    | 4.8     | .2      |         |         |         |         |         |      | 8.9   | 11.1                  |
| WSW                     | .2    | .7    | 2.8    | 2.9     | .4      |         |         |         |         |         |      | 7.1   | 10.4                  |
| W                       |       | 1.1   | 3.8    | 3.8     | .4      | .1      |         |         |         |         |      | 9.2   | 11.0                  |
| WNW                     | .1    | .1    | 2.3    | 2.5     | .5      |         |         |         |         |         |      | 5.5   | 11.0                  |
| NW                      |       | .9    | 3.3    | 4.4     | .5      | .1      |         |         |         |         |      | 9.2   | 11.2                  |
| NNW                     |       | .9    | 2.9    | 3.7     | .5      | .1      |         |         |         |         |      | 8.1   | 11.4                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .5    |                       |
|                         | .9    | 14.7  | 39.7   | 40.4    | 3.4     | .4      |         |         |         |         |      | 100.0 | 10.2                  |

TOTAL NUMBER OF OBSERVATIONS 816



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

12:250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

MAY  
MONTHALL WEATHER  
CLASS1800-2000  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 6.0   | 8.0    | 3.3     |         | .1      |         |         |         |         |      | 17.6  | 8.0                   |
| NNE                     |       | 1.1   | 3.3    | 1.6     |         |         |         |         |         |         |      | 6.0   | 8.8                   |
| NE                      |       | 1.5   | 2.6    | .7      |         |         |         |         |         |         |      | 4.7   | 8.2                   |
| ENE                     | .1    | .6    | .7     |         |         |         |         |         |         |         |      | 1.5   | 6.8                   |
| E                       | .2    | 2.3   | .9     | .7      |         |         |         |         |         |         |      | 4.1   | 6.9                   |
| ESE                     |       | 1.8   | 1.6    | .6      |         |         |         |         |         |         |      | 4.0   | 7.3                   |
| SE                      | .2    | 2.1   | 1.6    | 1.7     |         |         |         |         |         |         |      | 5.6   | 8.3                   |
| SSE                     | .5    | 1.1   | 1.1    | .9      |         |         |         |         |         |         |      | 3.5   | 7.5                   |
| S                       | .6    | 3.8   | 3.2    | .9      |         |         |         |         |         |         |      | 8.4   | 6.8                   |
| SSW                     |       | 1.7   | 2.2    | .7      |         |         |         |         |         |         |      | 4.6   | 7.9                   |
| SW                      | .2    | 1.3   | 1.9    | 1.2     | .4      |         |         |         |         |         |      | 5.1   | 9.2                   |
| WSW                     |       | 1.7   | 1.2    | .6      | .1      |         |         |         |         |         |      | 3.6   | 7.9                   |
| W                       | .5    | 1.8   | 2.7    | 2.2     | .1      |         |         |         |         |         |      | 7.3   | 8.7                   |
| WNW                     | .1    | 1.6   | 2.8    | 1.2     |         |         |         |         |         |         |      | 5.7   | 8.5                   |
| NW                      | .5    | 2.2   | 3.8    | 1.8     | .2      |         |         |         |         |         |      | 8.5   | 8.5                   |
| NNW                     | .1    | 1.0   | 2.8    | 2.1     | .2      |         |         |         |         |         |      | 6.2   | 10.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.4   |                       |
|                         | 3.4   | 31.5  | 40.3   | 20.2    | 1.1     | .1      |         |         |         |         |      | 100.0 | 7.9                   |

TOTAL NUMBER OF OBSERVATIONS

822

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72250 STATION YOUNGSTOWN MAP OH STATION NAME 73-81 YEARS MAY MONTH  
ALL WEATHER CLASS 2100-2300 HOURS (L.S.T.)  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .8    | 7.3   | 2.2    | .3      | .5      |         |         |         |         |         |      | 11.0  | 6.5                   |
| NNE                     | .1    | .9    | 1.5    |         |         |         |         |         |         |         |      | 2.5   | 7.1                   |
| NE                      | .1    | 2.5   | 3.1    | .3      |         |         |         |         |         |         |      | 6.0   | 7.1                   |
| ENE                     |       | 2.8   | 2.9    | .1      |         |         |         |         |         |         |      | 5.9   | 6.4                   |
| E                       | .3    | 4.3   | 2.5    | .3      | .3      |         |         |         |         |         |      | 7.6   | 6.8                   |
| ESE                     | .1    | 1.5   | 3.2    | 1.0     |         |         |         |         |         |         |      | 5.9   | 7.8                   |
| SE                      | .4    | 4.1   | 2.9    | 1.4     |         |         |         |         |         |         |      | 8.8   | 7.6                   |
| SSE                     |       | 1.4   | 1.4    | .5      |         |         |         |         |         |         |      | 3.3   | 7.7                   |
| S                       |       | 3.7   | 4.7    | .4      |         |         |         |         |         |         |      | 8.8   | 6.9                   |
| SSW                     | .1    | 2.2   | 2.2    | 1.1     |         |         |         |         |         |         |      | 5.6   | 7.6                   |
| SW                      | .5    | 2.2   | 2.3    | .3      |         |         |         |         |         |         |      | 5.2   | 6.8                   |
| WSW                     | .3    | 1.3   | .4     | .4      |         |         |         |         |         |         |      | 2.3   | 6.3                   |
| W                       | 1.1   | 2.3   | 1.9    | 1.1     | .3      |         |         |         |         |         |      | 6.8   | 7.5                   |
| WNW                     | .3    | 1.8   | 1.5    |         |         |         |         |         |         |         |      | 3.6   | 6.3                   |
| NW                      | .4    | 2.5   | 1.7    | .8      |         |         |         |         |         |         |      | 5.4   | 7.0                   |
| NNW                     | .1    | 1.9   | 1.3    | .5      |         |         |         |         |         |         |      | 3.8   | 6.9                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 7.6   |                       |
|                         | 4.6   | 42.7  | 35.7   | 8.4     | 1.0     |         |         |         |         |         |      | 100.0 | 6.5                   |

TOTAL NUMBER OF OBSERVATIONS 785

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72-253  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

MAY

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 3.0   | 3.9    | 2.6     | .2      | .0      |         |         |         |         |      | 9.9   | 8.7                   |
| NNE                     | .1    | .8    | 1.5    | .7      | .0      |         |         |         |         |         |      | 3.2   | 8.6                   |
| NE                      | .2    | 1.3   | 2.1    | .5      |         |         |         |         |         |         |      | 4.1   | 7.6                   |
| ENE                     | .1    | 1.1   | 1.5    | .2      |         |         |         |         |         |         |      | 2.9   | 7.0                   |
| E                       | .2    | 2.9   | 2.9    | .6      | .1      |         |         |         |         |         |      | 6.6   | 7.1                   |
| ESE                     | .1    | 1.3   | 2.6    | .9      | .0      |         |         |         |         |         |      | 4.9   | 8.1                   |
| SE                      | .2    | 2.2   | 3.6    | 1.9     | .0      |         |         |         |         |         |      | 8.0   | 8.4                   |
| SSE                     | .1    | 1.0   | 2.2    | .9      |         |         |         |         |         |         |      | 4.2   | 8.5                   |
| S                       | .2    | 2.6   | 4.6    | 1.3     | .0      |         |         |         |         |         |      | 8.8   | 7.8                   |
| SSW                     | .2    | 1.5   | 2.5    | 1.5     | .0      |         |         |         |         |         |      | 5.7   | 8.5                   |
| SW                      | .3    | 1.6   | 2.8    | 2.1     | .3      |         |         |         |         |         |      | 7.1   | 9.3                   |
| WSW                     | .2    | 1.2   | 1.8    | 1.7     | .2      | .0      |         |         |         |         |      | 5.1   | 9.4                   |
| W                       | .5    | 1.9   | 3.2    | 2.6     | .2      | .0      |         |         |         |         |      | 8.4   | 9.3                   |
| WNW                     | .2    | 1.2   | 1.9    | 1.4     | .2      |         |         |         |         |         |      | 4.9   | 8.9                   |
| NW                      | .2    | 1.9   | 2.7    | 2.0     | .2      | .0      |         |         |         |         |      | 7.0   | 9.1                   |
| NNW                     | .1    | 1.2   | 1.8    | 1.8     | .2      | .0      |         |         |         |         |      | 5.2   | 9.6                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 4.0   |                       |
|                         | 3.2   | 26.9  | 41.6   | 22.6    | 1.7     | .1      |         |         |         |         |      | 100.0 | 8.2                   |

TOTAL NUMBER OF OBSERVATIONS

6911

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 3.0   | 1.1    | .4      |         |         |         |         |         |         |      | 4.5   | 6.7                   |
| NNE                     |       | .7    | 1.4    | .1      |         |         |         |         |         |         |      | 2.3   | 7.4                   |
| NE                      |       | 1.7   | 1.0    |         |         |         |         |         |         |         |      | 2.7   | 6.1                   |
| ENE                     | .3    | .7    | .9     |         |         |         |         |         |         |         |      | 1.8   | 5.8                   |
| E                       | .1    | 3.7   | 3.3    | .3      |         |         |         |         |         |         |      | 7.4   | 6.6                   |
| ESE                     | .1    | 4.1   | 2.1    |         |         |         |         |         |         |         |      | 6.4   | 6.1                   |
| SE                      | .1    | 3.7   | 3.7    | .3      |         |         |         |         |         |         |      | 7.8   | 6.9                   |
| SSE                     | .1    | 2.7   | 1.6    |         |         |         |         |         |         |         |      | 4.4   | 6.2                   |
| S                       | .9    | 5.5   | 9.2    | .3      |         |         |         |         |         |         |      | 15.9  | 6.8                   |
| SSW                     | .7    | 2.4   | 4.8    | .3      |         |         |         |         |         |         |      | 8.2   | 7.2                   |
| SW                      | .9    | 3.4   | 5.0    | 1.4     | .1      |         |         |         |         |         |      | 10.8  | 7.5                   |
| WSW                     | .7    | 1.8   | 1.6    | .9      |         |         |         |         |         |         |      | 5.0   | 7.0                   |
| W                       | .4    | 3.1   | 1.6    | 1.0     |         |         |         |         |         |         |      | 6.1   | 7.3                   |
| WNW                     | .6    | 1.8   | .7     | .4      |         |         |         |         |         |         |      | 3.5   | 6.4                   |
| NW                      |       | 1.6   | .7     | .1      |         |         |         |         |         |         |      | 2.4   | 6.8                   |
| NNW                     | .6    | .4    | .6     | .7      |         |         |         |         |         |         |      | 2.3   | 8.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 8.5   |                       |
|                         | 5.5   | 40.4  | 39.1   | 6.2     | .1      |         |         |         |         |         |      | 100.0 | 6.3                   |

TOTAL NUMBER OF OBSERVATIONS

705

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725251  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 1.7   | 1.8    | .4      | .1      |         |         |         |         |         |      | 4.3   | 7.4                   |
| NNE                     | .3    | .6    | 1.3    |         |         |         |         |         |         |         |      | 2.1   | 7.0                   |
| NE                      |       | 1.3   | 1.4    | .3      |         |         |         |         |         |         |      | 3.0   | 7.2                   |
| ENE                     | .1    | 1.1   | .1     |         |         |         |         |         |         |         |      | 1.4   | 5.6                   |
| E                       | .6    | 3.1   | 2.6    |         |         |         |         |         |         |         |      | 6.2   | 6.1                   |
| ESE                     | .1    | 2.7   | 2.1    |         |         |         |         |         |         |         |      | 5.0   | 6.2                   |
| SE                      | .1    | 3.3   | 5.0    | .1      |         |         |         |         |         |         |      | 8.5   | 7.0                   |
| SSE                     | .6    | 2.4   | 1.8    | .3      |         |         |         |         |         |         |      | 5.1   | 6.4                   |
| S                       | .6    | 5.5   | 8.7    | .6      |         |         |         |         |         |         |      | 15.3  | 7.0                   |
| SSW                     | .3    | 3.7   | 3.0    | .6      |         |         |         |         |         |         |      | 7.5   | 6.7                   |
| SW                      | .7    | 4.8   | 5.1    | 2.0     |         |         |         |         |         |         |      | 12.6  | 7.3                   |
| WSW                     | .4    | 3.4   | 2.7    | .3      |         |         |         |         |         |         |      | 6.8   | 6.6                   |
| W                       | .7    | 2.1   | 1.3    | 1.0     | .1      |         |         |         |         |         |      | 5.3   | 7.4                   |
| WNW                     | .1    | 1.6   | .3     | .4      |         |         |         |         |         |         |      | 2.4   | 6.9                   |
| NW                      | .1    | .9    | 1.3    | .4      |         |         |         |         |         |         |      | 2.7   | 7.4                   |
| NNW                     |       | 1.0   | 1.0    |         |         |         |         |         |         |         |      | 2.0   | 6.6                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 9.7   |                       |
|                         | 5.0   | 39.2  | 39.5   | 6.4     | .3      |         |         |         |         |         |      | 100.0 | 6.2                   |

TOTAL NUMBER OF OBSERVATIONS

704

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

721250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | 1.4   | 1.7    | .5      |         |         |         |         |         |         |      | 4.0   | 7.1                   |
| NNE                     |       | .4    | 1.6    | .4      |         |         |         |         |         |         |      | 2.4   | 8.3                   |
| NE                      |       | .7    | 1.2    | .4      |         |         |         |         |         |         |      | 2.4   | 7.8                   |
| ENE                     |       | 1.1   | 1.0    |         |         |         |         |         |         |         |      | 2.1   | 6.8                   |
| E                       | .1    | 2.2   | 2.7    |         |         |         |         |         |         |         |      | 5.1   | 6.6                   |
| ESE                     | .1    | 2.9   | 2.0    | .1      |         |         |         |         |         |         |      | 5.1   | 6.2                   |
| SE                      |       | 2.2   | 4.4    | .5      |         |         |         |         |         |         |      | 7.1   | 7.6                   |
| SSE                     | .2    | 2.2   | 3.0    | .1      |         |         |         |         |         |         |      | 5.6   | 6.9                   |
| S                       | .7    | 3.6   | 8.0    | 1.0     |         |         |         |         |         |         |      | 13.3  | 7.5                   |
| SSW                     | .1    | 4.0   | 4.1    | .5      |         |         |         |         |         |         |      | 8.7   | 6.8                   |
| SW                      | .7    | 2.6   | 5.6    | 2.4     | .2      |         |         |         |         |         |      | 11.6  | 8.2                   |
| WSW                     | .6    | 3.0   | 3.2    | 2.0     |         |         |         |         |         |         |      | 8.8   | 7.8                   |
| W                       | .5    | 2.9   | 2.6    | 1.4     | .2      |         |         |         |         |         |      | 7.6   | 7.6                   |
| WNW                     | .2    | 1.1   | 1.9    | .5      |         |         |         |         |         |         |      | 3.7   | 7.5                   |
| NW                      | .4    | 1.2   | 1.7    | .6      |         |         |         |         |         |         |      | 4.0   | 7.3                   |
| NNW                     | .1    | .9    | 1.7    | .5      |         |         |         |         |         |         |      | 3.2   | 8.2                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 5.2   |                       |
|                         | 4.4   | 32.5  | 46.6   | 10.8    | .5      |         |         |         |         |         |      | 100.0 | 7.0                   |

TOTAL NUMBER OF OBSERVATIONS

803

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | .9    | 3.3    | .8      | .1      |         |         |         |         |         |      | 5.5   | 8.2                   |
| NNE                     |       | .4    | 1.4    | .9      |         |         |         |         |         |         |      | 2.7   | 9.6                   |
| NE                      |       | .9    | .8     | .4      |         |         |         |         |         |         |      | 2.0   | 7.6                   |
| ENE                     | .1    | .3    | .3     | .3      |         |         |         |         |         |         |      | .9    | 7.3                   |
| E                       |       | 1.0   | 2.0    | .4      |         |         |         |         |         |         |      | 3.4   | 7.8                   |
| ESE                     | .1    | .9    | 1.3    | .4      |         |         |         |         |         |         |      | 2.7   | 7.9                   |
| SE                      | .3    | 1.1   | 2.3    | .5      |         |         |         |         |         |         |      | 4.2   | 7.5                   |
| SSE                     |       | .5    | 2.0    | 1.0     |         |         |         |         |         |         |      | 3.6   | 9.5                   |
| S                       | .3    | 2.7   | 8.1    | 2.5     |         |         |         |         |         |         |      | 13.6  | 8.4                   |
| SSW                     |       | 1.3   | 3.4    | 2.0     |         |         |         |         |         |         |      | 6.7   | 9.1                   |
| SW                      | .1    | 2.0   | 5.5    | 3.8     | .1      |         |         |         |         |         |      | 11.6  | 9.5                   |
| WSW                     |       | .5    | 6.1    | 4.5     |         |         |         |         |         |         |      | 11.1  | 10.2                  |
| W                       | .6    | 1.9   | 6.2    | 4.6     |         |         |         |         |         |         |      | 13.4  | 9.4                   |
| WNW                     |       | 1.4   | 2.9    | 1.5     | .1      |         |         |         |         |         |      | 6.0   | 8.9                   |
| NW                      | .1    | 1.8   | 3.2    | 2.0     | .4      |         |         |         |         |         |      | 7.5   | 9.2                   |
| NNW                     |       | .6    | 2.0    | 1.3     | .1      |         |         |         |         |         |      | 4.1   | 9.8                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.1   |                       |
|                         | 2.0   | 18.2  | 50.9   | 26.8    | .9      |         |         |         |         |         |      | 100.0 | 8.9                   |

TOTAL NUMBER OF OBSERVATIONS 786

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 2.0   | 3.9    | 2.1     |         |         |         |         |         |         |      | 8.0   | 8.8                   |
| NNE                     |       | .5    | 1.3    | 1.4     | .3      |         |         |         |         |         |      | 3.4   | 10.7                  |
| NE                      |       | .3    | .6     | .6      |         |         |         |         |         |         |      | 1.5   | 9.1                   |
| ENE                     | .1    | .1    | .5     | .1      |         |         |         |         |         |         |      | .9    | 7.7                   |
| E                       |       | 1.0   | 1.0    | .4      |         |         |         |         |         |         |      | 2.4   | 7.8                   |
| ESE                     |       | .3    | 1.0    | .3      |         |         |         |         |         |         |      | 1.5   | 8.3                   |
| SE                      |       | .4    | 1.4    | 1.3     |         |         |         |         |         |         |      | 3.0   | 9.5                   |
| SSE                     |       | .5    | 1.5    | 1.1     | .1      |         |         |         |         |         |      | 3.3   | 9.4                   |
| S                       |       | 2.6   | 5.6    | 3.0     |         |         |         |         |         |         |      | 11.3  | 8.8                   |
| SSW                     | .1    | .8    | 3.6    | 2.3     | .3      |         |         |         |         |         |      | 7.0   | 9.7                   |
| SW                      |       | 1.5   | 5.9    | 4.8     | .4      |         |         |         |         |         |      | 12.5  | 10.2                  |
| WSW                     | .1    | 1.1   | 3.1    | 4.4     | .3      |         |         |         |         |         |      | 9.0   | 10.3                  |
| W                       | .1    | 2.5   | 4.8    | 5.5     | .8      |         |         |         |         |         |      | 13.6  | 10.3                  |
| WNW                     |       | .9    | 3.1    | 2.3     | .4      | .1      |         |         |         |         |      | 6.8   | 10.8                  |
| NW                      | .1    | 1.0   | 4.3    | 3.5     | .1      |         |         |         |         |         |      | 9.0   | 9.9                   |
| NNW                     |       | 1.0   | 1.1    | 4.0     | .3      |         |         |         |         |         |      | 6.4   | 11.2                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .6    |                       |
|                         | .6    | 16.4  | 42.6   | 36.9    | 2.8     | .1      |         |         |         |         |      | 100.0 | 9.8                   |

TOTAL NUMBER OF OBSERVATIONS

800



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .5    | 1.5   | 5.5    | 4.1     |         |         |         |         |         |         |      | 11.6  | 9.3                   |
| NNE                     |       | .3    | 1.8    | .6      |         |         |         |         |         |         |      | 2.7   | 9.2                   |
| NE                      | .1    | .5    | 1.0    | .4      |         |         |         |         |         |         |      | 2.0   | 7.8                   |
| ENE                     |       | .3    | .8     | .3      |         |         |         |         |         |         |      | 1.3   | 8.5                   |
| E                       |       | .4    | 1.8    | .6      |         |         |         |         |         |         |      | 2.8   | 8.8                   |
| ESE                     |       | .4    | .6     | .3      |         |         |         |         |         |         |      | 1.3   | 7.8                   |
| SE                      | .1    | 1.4   | 1.7    | .5      | .1      |         |         |         |         |         |      | 3.8   | 7.9                   |
| SSE                     | .1    | .3    | 1.5    | 1.1     |         |         |         |         |         |         |      | 3.1   | 9.3                   |
| S                       | .1    | 1.9   | 4.6    | 1.3     |         |         |         |         |         |         |      | 7.9   | 8.2                   |
| SSW                     | .1    | 1.4   | 3.3    | 3.4     | .3      |         |         |         |         |         |      | 8.5   | 10.1                  |
| SW                      | .4    | 1.3   | 6.4    | 4.2     | .4      |         |         |         |         |         |      | 12.6  | 9.8                   |
| WSW                     |       | 1.7   | 3.2    | 3.6     | .1      |         |         |         |         |         |      | 8.5   | 10.0                  |
| W                       | .1    | 1.0   | 4.5    | 3.7     | .3      |         |         |         |         |         |      | 9.6   | 10.2                  |
| WNW                     | .1    | .6    | 2.6    | 1.8     | .1      |         |         |         |         |         |      | 5.2   | 9.8                   |
| NW                      | .1    | .8    | 5.4    | 4.7     | .3      |         |         |         |         |         |      | 11.2  | 10.4                  |
| NNW                     |       | .8    | 2.2    | 4.2     | .1      |         |         |         |         |         |      | 7.3   | 11.1                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .5    |                       |
|                         | 1.9   | 14.4  | 46.7   | 34.8    | 1.7     |         |         |         |         |         |      | 100.0 | 9.6                   |

TOTAL NUMBER OF OBSERVATIONS

784

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725250

YOUNGSTOWN MAP OH

73-81

JUN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1800-2000

CLASS

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 3.2   | 5.5    | 1.5     | .1      |         |         |         |         |         |      | 10.3  | 8.0                   |
| NNE                     |       | 1.3   | 3.0    | .5      |         |         |         |         |         |         |      | 4.8   | 7.9                   |
| NE                      |       | 1.9   | 1.3    |         |         |         |         |         |         |         |      | 3.2   | 6.5                   |
| ENE                     | .1    | .8    | .3     | .1      |         |         |         |         |         |         |      | 1.3   | 5.9                   |
| E                       | .4    | 2.1   | 1.0    | .1      |         |         |         |         |         |         |      | 3.7   | 5.9                   |
| ESE                     | .3    | 1.4   | 1.3    | .1      |         |         |         |         |         |         |      | 3.0   | 6.7                   |
| SE                      |       | 1.5   | 1.8    | .8      |         |         |         |         |         |         |      | 4.0   | 8.3                   |
| SSE                     | .1    | 1.0   | 1.4    | .1      |         |         |         |         |         |         |      | 2.6   | 6.9                   |
| S                       | .5    | 5.2   | 4.3    | 1.9     |         |         |         |         |         |         |      | 11.9  | 7.1                   |
| SSW                     | .1    | 4.3   | 3.7    | .9      |         |         |         |         |         |         |      | 9.0   | 7.1                   |
| SW                      | .6    | 2.9   | 4.8    | 1.5     |         |         |         |         |         |         |      | 9.8   | 7.7                   |
| WSW                     | .8    | 1.9   | 2.6    | .8      | .3      |         |         |         |         |         |      | 6.3   | 7.6                   |
| W                       | .3    | 1.9   | 2.1    | 1.3     |         |         |         |         |         |         |      | 5.5   | 7.8                   |
| WNW                     | .3    | 1.6   | 1.0    | .6      |         |         |         |         |         |         |      | 3.5   | 7.5                   |
| NW                      | .4    | 3.8   | 3.5    | 2.1     | .1      |         |         |         |         |         |      | 10.0  | 8.3                   |
| NNW                     |       | 1.3   | 3.7    | 2.1     | .1      |         |         |         |         |         |      | 7.2   | 9.5                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.9   |                       |
|                         | 3.8   | 35.9  | 41.2   | 14.5    | .6      |         |         |         |         |         |      | 100.0 | 7.3                   |

TOTAL NUMBER OF OBSERVATIONS

793

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

724257  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .8    | 1.8   | 3.0    | .3      |         |         |         |         |         |         |      | 5.9   | 6.6                   |
| NNE                     | .1    | 1.2   | 1.2    | .3      |         |         |         |         |         |         |      | 2.9   | 7.0                   |
| NE                      | .1    | 2.5   | 1.8    |         |         |         |         |         |         |         |      | 4.4   | 6.1                   |
| ENE                     | .3    | 2.6   | 1.6    |         |         |         |         |         |         |         |      | 4.5   | 5.8                   |
| E                       | .3    | 4.9   | 1.1    |         |         |         |         |         |         |         |      | 6.3   | 5.6                   |
| ESE                     | .5    | 2.6   | 1.5    | .3      |         |         |         |         |         |         |      | 4.9   | 6.3                   |
| SE                      | .1    | 2.2   | 1.0    | .7      |         |         |         |         |         |         |      | 4.0   | 7.1                   |
| SSE                     | .4    | 2.3   | 1.9    | .1      |         |         |         |         |         |         |      | 4.8   | 6.4                   |
| S                       | 1.1   | 8.9   | 8.0    | .7      |         |         |         |         |         |         |      | 18.7  | 6.6                   |
| SSW                     | 1.0   | 3.5   | 3.0    | .5      |         |         |         |         |         |         |      | 8.0   | 6.9                   |
| SW                      | 1.0   | 2.9   | 2.6    | 1.0     |         |         |         |         |         |         |      | 7.4   | 6.8                   |
| WSW                     | .4    | 1.8   | .5     | .7      |         |         |         |         |         |         |      | 3.4   | 7.2                   |
| W                       | .5    | 2.3   | 2.0    | .8      |         |         |         |         |         |         |      | 5.7   | 7.0                   |
| WNW                     | .4    | 1.6   | .7     | .3      |         |         |         |         |         |         |      | 3.0   | 6.3                   |
| NW                      | .4    | 1.2   | 1.6    | .3      |         | .1      |         |         |         |         |      | 3.7   | 7.6                   |
| NNW                     | .3    | 1.0   | .3     | .4      |         |         |         |         |         |         |      | 1.9   | 6.5                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 10.6  |                       |
|                         | 7.8   | 43.2  | 31.9   | 6.3     |         | .1      |         |         |         |         |      | 100.0 | 5.9                   |

TOTAL NUMBER OF OBSERVATIONS

733

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-250

YOUNGSTOWN MAP OH

73-81

JUN

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.R.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 1.9   | 3.3    | 1.3     | .0      |         |         |         |         |         |      | 6.8   | 8.1                   |
| NNE                     | .0    | .7    | 1.6    | .5      | .0      |         |         |         |         |         |      | 2.9   | 8.5                   |
| NE                      | .0    | 1.2   | 1.1    | .3      |         |         |         |         |         |         |      | 2.6   | 7.1                   |
| ENE                     | .1    | .9    | .7     | .1      |         |         |         |         |         |         |      | 1.8   | 6.4                   |
| E                       | .2    | 2.3   | 1.9    | .2      |         |         |         |         |         |         |      | 4.6   | 6.7                   |
| ESE                     | .2    | 1.9   | 1.5    | .2      |         |         |         |         |         |         |      | 3.7   | 6.6                   |
| SE                      | .1    | 1.9   | 2.6    | .6      | .0      |         |         |         |         |         |      | 5.2   | 7.6                   |
| SSE                     | .2    | 1.5   | 1.9    | .5      | .0      |         |         |         |         |         |      | 4.0   | 7.4                   |
| S                       | .5    | 4.4   | 7.0    | 1.4     |         |         |         |         |         |         |      | 13.4  | 7.5                   |
| SSW                     | .3    | 2.7   | 3.6    | 1.3     | .1      |         |         |         |         |         |      | 8.0   | 7.9                   |
| SW                      | .5    | 2.6   | 5.1    | 2.7     | .2      |         |         |         |         |         |      | 11.1  | 8.5                   |
| WSW                     | .4    | 1.9   | 2.9    | 2.2     | .1      |         |         |         |         |         |      | 7.4   | 8.7                   |
| W                       | .4    | 2.2   | 3.2    | 2.5     | .2      |         |         |         |         |         |      | 8.4   | 8.8                   |
| WNW                     | .2    | 1.3   | 1.7    | 1.0     | .1      | .0      |         |         |         |         |      | 4.3   | 8.5                   |
| NW                      | .2    | 1.5   | 2.8    | 1.8     | .1      | .0      |         |         |         |         |      | 6.4   | 9.0                   |
| NNW                     | .1    | .9    | 1.6    | 1.7     | .1      |         |         |         |         |         |      | 4.4   | 9.7                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 4.9   |                       |
|                         | 3.8   | 29.6  | 42.5   | 18.3    | .9      | .0      |         |         |         |         |      | 100.0 | 7.7                   |

TOTAL NUMBER OF OBSERVATIONS

6108

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-80

YEARS

JUL

MONTH

ALL WEATHER

CLASS

0000-0200

HOURS (L.S.T.)

CONDITION

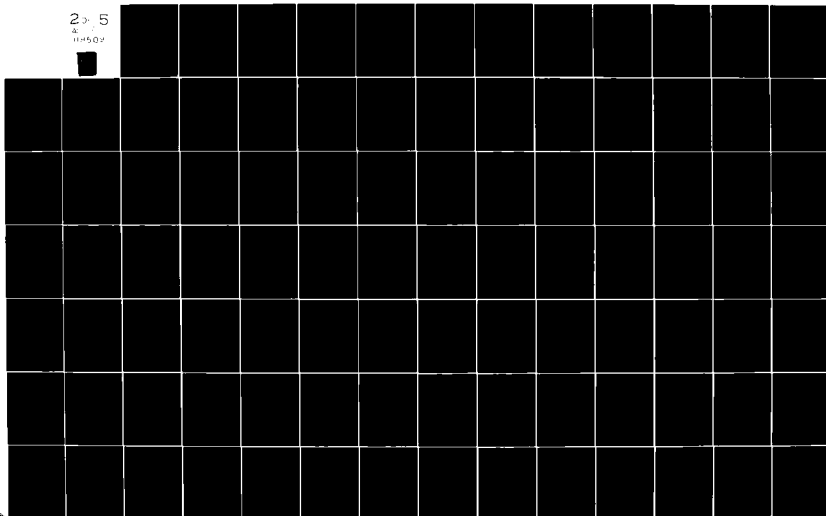
| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 2.1   | 1.2    | .4      |         |         |         |         |         |         |      | 4.0   | 6.2                   |
| NNE                     | .1    | .5    |        |         |         |         |         |         |         |         |      | .7    | 5.0                   |
| NE                      | .5    | 1.4   | 2.1    |         |         |         |         |         |         |         |      | 4.0   | 6.1                   |
| ENE                     | .1    | 4.3   | .4     |         |         |         |         |         |         |         |      | 4.8   | 5.3                   |
| E                       | .8    | 5.9   | 1.9    | .1      |         |         |         |         |         |         |      | 8.8   | 5.5                   |
| ESE                     | 1.0   | 4.0   | .8     | .3      |         |         |         |         |         |         |      | 6.0   | 5.4                   |
| SE                      | .1    | 3.4   | 1.5    |         |         |         |         |         |         |         |      | 5.1   | 5.6                   |
| SSE                     |       | 2.2   | 1.4    |         |         |         |         |         |         |         |      | 3.6   | 6.2                   |
| S                       | .5    | 8.4   | 5.5    | .4      |         |         |         |         |         |         |      | 14.8  | 6.2                   |
| SSW                     | 1.2   | 3.6   | 2.9    | .5      |         |         |         |         |         |         |      | 8.2   | 6.4                   |
| SW                      | .8    | 3.7   | 4.0    | 1.5     |         |         |         |         |         |         |      | 10.0  | 7.2                   |
| WSW                     | .4    | 3.0   | 1.6    | .5      |         |         |         |         |         |         |      | 5.6   | 6.8                   |
| W                       | .7    | 1.8   | .8     | .3      |         |         |         |         |         |         |      | 3.6   | 5.6                   |
| WNW                     |       | 1.2   |        |         |         |         |         |         |         |         |      | 1.2   | 5.1                   |
| NW                      |       | 2.1   | 1.4    |         |         |         |         |         |         |         |      | 3.4   | 6.2                   |
| NNW                     |       | 1.5   | 1.0    | .3      |         |         |         |         |         |         |      | 2.7   | 6.6                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 13.4  |                       |
|                         | 6.7   | 49.0  | 26.5   | 4.4     |         |         |         |         |         |         |      | 100.0 | 5.3                   |

TOTAL NUMBER OF OBSERVATIONS

729

AD-A116 509 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
YOUNGSTOWN MAP, OHIO. REVISED UNIFORM SUMMARY OF SURFACE WEATHE--ETC(11)  
MAY 82  
UNCLASSIFIED USAFETAC/DS-82/034 S81-AD-E850 193 NL

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11502



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | 1.2   | 1.2    | .1      |         |         |         |         |         |         |      | 3.0   | 6.4                   |
| NNE                     |       | .3    | .4     |         |         |         |         |         |         |         |      | .7    | 6.6                   |
| NE                      |       | 1.5   | .8     | .4      |         |         |         |         |         |         |      | 2.7   | 7.2                   |
| ENE                     |       | 1.9   | 1.1    |         |         |         |         |         |         |         |      | 3.0   | 6.0                   |
| E                       | .1    | 4.4   | 1.9    | .3      |         |         |         |         |         |         |      | 6.7   | 6.1                   |
| ESE                     | .4    | 3.3   | 1.1    | .1      |         |         |         |         |         |         |      | 4.9   | 5.6                   |
| SE                      | .5    | 4.2   | 1.2    |         |         |         |         |         |         |         |      | 6.0   | 5.6                   |
| SSE                     | .4    | 1.5   | 1.6    | .3      |         |         |         |         |         |         |      | 3.8   | 6.2                   |
| S                       | 1.4   | 7.9   | 4.9    |         |         |         |         |         |         |         |      | 14.2  | 6.0                   |
| SSW                     | .4    | 4.1   | 3.8    | .1      |         |         |         |         |         |         |      | 8.5   | 6.4                   |
| SW                      | 1.8   | 4.7   | 4.5    | 1.2     |         |         |         |         |         |         |      | 12.2  | 6.7                   |
| WSW                     | .4    | 2.7   | 1.1    | .5      |         |         |         |         |         |         |      | 4.8   | 6.3                   |
| W                       | .5    | 3.3   | .8     |         |         |         |         |         |         |         |      | 4.7   | 5.4                   |
| WNW                     | .4    | 1.4   | .8     |         |         |         |         |         |         |         |      | 2.6   | 5.6                   |
| NW                      | .1    | 2.2   |        |         |         |         |         |         |         |         |      | 2.3   | 4.8                   |
| NNW                     | .4    | 1.4   | .7     |         |         |         |         |         |         |         |      | 2.5   | 5.8                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 17.4  |                       |
|                         | 7.4   | 46.0  | 26.1   | 3.1     |         |         |         |         |         |         |      | 100.0 | 5.0                   |

TOTAL NUMBER OF OBSERVATIONS

731

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

JUL

MONTH

ALL WEATHER

CLASS

0600-0800

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 1.8   | 1.7    | .4      |         |         |         |         |         |         |      | 4.1   | 6.9                   |
| NNE                     | .2    | .7    | .9     | .2      |         |         |         |         |         |         |      | 2.1   | 6.6                   |
| NE                      |       | 1.5   | 1.7    | .6      |         |         |         |         |         |         |      | 3.8   | 7.8                   |
| ENE                     | .4    | 1.2   | .9     | .1      |         |         |         |         |         |         |      | 2.6   | 6.3                   |
| E                       | .9    | 4.5   | 2.2    | .1      |         |         |         |         |         |         |      | 7.7   | 5.8                   |
| ESE                     | .2    | 2.9   | 2.2    | .2      |         |         |         |         |         |         |      | 5.6   | 6.4                   |
| SE                      | .7    | 3.2   | 2.1    | .1      |         |         |         |         |         |         |      | 6.1   | 5.8                   |
| SSE                     | .6    | 1.1   | 1.0    | .1      |         |         |         |         |         |         |      | 2.8   | 5.8                   |
| S                       | .4    | 5.7   | 5.4    | .6      |         |         |         |         |         |         |      | 12.1  | 6.7                   |
| SSW                     | .4    | 2.8   | 3.9    |         |         |         |         |         |         |         |      | 7.1   | 6.5                   |
| SW                      | .9    | 6.3   | 5.1    | 1.1     |         |         |         |         |         |         |      | 13.4  | 6.8                   |
| WSW                     | .4    | 3.2   | 2.3    | 1.0     | .1      |         |         |         |         |         |      | 7.0   | 7.3                   |
| W                       | .6    | 3.5   | 3.0    | .6      |         |         |         |         |         |         |      | 7.8   | 6.8                   |
| WNW                     | .2    | 1.6   | .5     | .4      |         |         |         |         |         |         |      | 2.7   | 6.5                   |
| NW                      | .4    | 1.5   | 1.3    | .2      |         |         |         |         |         |         |      | 3.4   | 6.6                   |
| NNW                     | .1    | 1.1   | .4     | .7      |         |         |         |         |         |         |      | 2.3   | 7.3                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 9.5   |                       |
|                         | 6.6   | 42.7  | 34.5   | 6.6     | .1      |         |         |         |         |         |      | 100.0 | 6.0                   |

TOTAL NUMBER OF OBSERVATIONS

820



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 2.2   | 3.5    | 2.7     |         |         |         |         |         |         |      | 8.4   | 8.8                   |
| NNE                     |       | .7    | 1.5    | .5      |         |         |         |         |         |         |      | 2.7   | 8.2                   |
| NE                      | .1    | 1.3   | 1.3    | .4      |         |         |         |         |         |         |      | 3.2   | 7.2                   |
| ENE                     | .1    | .9    | 1.0    |         |         |         |         |         |         |         |      | 2.0   | 6.1                   |
| E                       | .2    | 2.4   | 1.5    | .4      |         |         |         |         |         |         |      | 4.5   | 6.7                   |
| ESE                     | .2    | .9    | .6     | 1.0     | .1      |         |         |         |         |         |      | 2.8   | 8.7                   |
| SE                      | .5    | 1.6   | 3.3    | .2      |         |         |         |         |         |         |      | 5.6   | 7.2                   |
| SSE                     | .2    | .5    | 1.2    | .4      |         |         |         |         |         |         |      | 2.3   | 7.8                   |
| S                       | .9    | 2.8   | 4.3    | 1.3     |         |         |         |         |         |         |      | 9.3   | 7.3                   |
| SSW                     | .6    | 1.6   | 2.7    | 1.7     |         |         |         |         |         |         |      | 6.6   | 8.1                   |
| SW                      | .1    | 3.4   | 7.3    | 3.4     |         |         |         |         |         |         |      | 14.3  | 8.6                   |
| WSW                     | .4    | 2.3   | 3.9    | 2.8     |         |         |         |         |         |         |      | 9.4   | 8.9                   |
| W                       |       | 2.8   | 4.0    | 3.7     |         |         |         |         |         |         |      | 10.5  | 9.1                   |
| WNW                     | .6    | 1.2   | 2.2    | .7      |         |         |         |         |         |         |      | 4.8   | 7.5                   |
| NW                      | .4    | 2.3   | 3.4    | 1.6     |         |         |         |         |         |         |      | 7.7   | 8.2                   |
| NNW                     | .4    | .6    | 2.0    | 1.5     |         |         |         |         |         |         |      | 4.4   | 9.4                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.6   |                       |
|                         | 4.8   | 27.6  | 43.7   | 22.2    | .1      |         |         |         |         |         |      | 100.0 | 8.1                   |

TOTAL NUMBER OF OBSERVATIONS

819

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | 1.8   | 3.5    | 2.8     | .2      |         |         |         |         |         |      | 8.8   | 9.0                   |
| NNE                     | .2    | .9    | 1.0    | .7      |         |         |         |         |         |         |      | 2.8   | 8.1                   |
| NE                      |       | .7    | 1.6    | .5      |         |         |         |         |         |         |      | 2.8   | 8.0                   |
| ENE                     | .1    | 1.0   | .5     | .4      |         |         |         |         |         |         |      | 1.9   | 7.1                   |
| E                       | .1    | 1.2   | 1.2    | .6      |         |         |         |         |         |         |      | 3.2   | 7.7                   |
| ESE                     |       | .7    | 2.1    | .6      |         |         |         |         |         |         |      | 3.4   | 8.3                   |
| SE                      | .1    | 1.1   | 2.9    | .1      |         |         |         |         |         |         |      | 4.3   | 7.5                   |
| SSE                     |       | .9    | 1.1    | .2      |         |         |         |         |         |         |      | 2.2   | 7.2                   |
| S                       | .5    | 2.3   | 4.8    | 1.8     |         |         |         |         |         |         |      | 9.4   | 7.9                   |
| SSW                     | .1    | 1.8   | 1.9    | 1.6     | .1      |         |         |         |         |         |      | 5.6   | 8.7                   |
| SW                      | .2    | 2.4   | 4.5    | 5.7     | .1      |         |         |         |         |         |      | 13.0  | 9.9                   |
| WSW                     | .1    | 1.5   | 3.2    | 4.3     |         |         |         |         |         |         |      | 9.0   | 10.3                  |
| W                       | .1    | 2.9   | 4.8    | 4.0     |         |         |         |         |         |         |      | 11.8  | 8.9                   |
| WNW                     | .1    | 1.5   | 1.8    | 2.2     | .2      |         |         |         |         |         |      | 5.8   | 9.5                   |
| NW                      | .4    | 2.3   | 3.8    | 2.4     |         |         |         |         |         |         |      | 8.9   | 8.8                   |
| NNW                     |       | .5    | 1.9    | 3.9     | .1      |         |         |         |         |         |      | 6.5   | 11.1                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .6    |                       |
|                         | 2.6   | 23.5  | 40.6   | 31.9    | .9      |         |         |         |         |         |      | 100.0 | 8.9                   |

TOTAL NUMBER OF OBSERVATIONS 821

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

721250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

JUL

MONTH

ALL WEATHER

CLASS

1500-1700

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 2.1   | 4.7    | 6.0     |         |         |         |         |         |         |      | 13.0  | 10.0                  |
| NNE                     | .1    | .6    | 1.1    | .1      |         |         |         |         |         |         |      | 2.0   | 7.5                   |
| NE                      | .1    | 1.3   | 1.3    | .2      |         |         |         |         |         |         |      | 3.1   | 7.0                   |
| ENE                     |       | .9    | .9     | .1      |         |         |         |         |         |         |      | 1.8   | 7.1                   |
| E                       | .4    | 1.5   | 1.3    | .4      | .1      |         |         |         |         |         |      | 3.7   | 6.9                   |
| ESE                     | .1    | .2    | 1.2    | .4      |         |         |         |         |         |         |      | 2.0   | 8.4                   |
| SE                      | .4    | 1.6   | 1.7    | .5      |         |         |         |         |         |         |      | 4.2   | 7.0                   |
| SSE                     |       | 1.1   | 1.3    |         |         |         |         |         |         |         |      | 2.5   | 7.0                   |
| S                       | .5    | 1.8   | 2.7    | .7      |         |         |         |         |         |         |      | 5.8   | 7.3                   |
| SSW                     | .5    | 1.1   | 3.3    | 1.1     |         |         |         |         |         |         |      | 6.0   | 8.2                   |
| SW                      | .1    | 1.6   | 7.4    | 4.3     |         |         |         |         |         |         |      | 13.4  | 9.7                   |
| WSW                     | .1    | 1.7   | 3.3    | 3.7     | .7      |         |         |         |         |         |      | 9.6   | 10.4                  |
| W                       | .2    | 2.1   | 5.0    | 2.3     | .1      |         |         |         |         |         |      | 9.8   | 8.9                   |
| WNW                     | .1    | 1.0   | 2.8    | 1.8     |         |         |         |         |         |         |      | 5.8   | 9.0                   |
| NW                      |       | 1.5   | 4.9    | 3.8     |         |         |         |         |         |         |      | 10.2  | 9.5                   |
| NNW                     |       | .4    | 2.9    | 3.6     | .2      |         |         |         |         |         |      | 7.1   | 11.2                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .4    |                       |
|                         | 2.9   | 20.5  | 46.0   | 29.0    | 1.2     |         |         |         |         |         |      | 100.0 | 9.0                   |

TOTAL NUMBER OF OBSERVATIONS

816

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF Weather Service/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 4.7   | 5.9    | 2.7     |         |         |         |         |         |         |      | 13.3  | 8.1                   |
| NNE                     | .1    | 2.5   | 2.2    | .5      |         |         |         |         |         |         |      | 5.3   | 6.9                   |
| NE                      | .1    | 1.7   | 1.6    |         |         |         |         |         |         |         |      | 3.4   | 6.5                   |
| ENE                     | .2    | .5    | .4     |         |         |         |         |         |         |         |      | 1.1   | 5.0                   |
| E                       | .2    | 3.4   | .6     | .4      |         |         |         |         |         |         |      | 4.6   | 6.0                   |
| ESE                     | .2    | 1.7   | .5     |         |         |         |         |         |         |         |      | 2.4   | 5.2                   |
| SE                      | .2    | 2.4   | 1.3    | .5      |         |         |         |         |         |         |      | 4.5   | 6.7                   |
| SSE                     |       | 1.6   | .5     |         |         |         |         |         |         |         |      | 2.1   | 5.9                   |
| S                       | .5    | 4.5   | 2.9    | .8      |         |         |         |         |         |         |      | 8.7   | 6.3                   |
| SSW                     | .4    | 4.1   | 3.3    | .6      |         |         |         |         |         |         |      | 8.3   | 6.7                   |
| SW                      | .7    | 4.1   | 3.1    | 1.1     |         |         |         |         |         |         |      | 9.1   | 6.9                   |
| WSW                     | .6    | 2.3   | 2.7    | 1.6     |         |         |         |         |         |         |      | 7.1   | 7.9                   |
| W                       | .1    | 2.8   | 2.3    | .7      |         | .1      |         |         |         |         |      | 6.0   | 7.2                   |
| WNW                     | .6    | 2.3   | 1.0    | .4      |         |         |         |         |         |         |      | 4.2   | 6.4                   |
| NW                      | .5    | 3.4   | 3.7    | .7      |         |         |         |         |         |         |      | 8.3   | 7.3                   |
| NNW                     | .2    | 1.4   | 4.3    | 1.7     |         |         |         |         |         |         |      | 7.7   | 8.9                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.9   |                       |
|                         | 4.8   | 43.4  | 36.2   | 11.6    |         | .1      |         |         |         |         |      | 100.0 | 6.8                   |

TOTAL NUMBER OF OBSERVATIONS

828

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72°250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .8    | 5.1   | .8     | .1      | .1      |         |         |         |         |         |      | 7.0   | 5.4                   |
| NNE                     | .7    | 2.0   | .8     | .5      | .1      |         |         |         |         |         |      | 4.1   | 6.6                   |
| NE                      | .3    | 2.9   | 2.1    | .3      |         |         |         |         |         |         |      | 5.5   | 6.4                   |
| ENE                     | .9    | 2.9   | 1.2    |         |         |         |         |         |         |         |      | 5.0   | 5.4                   |
| E                       | .3    | 7.0   | .9     | .3      |         |         |         |         |         |         |      | 8.4   | 5.5                   |
| ESE                     | .9    | 2.2   | .7     |         |         |         |         |         |         |         |      | 3.8   | 5.0                   |
| SE                      | .7    | 2.4   | 1.3    |         |         |         |         |         |         |         |      | 4.3   | 5.6                   |
| SSE                     | .1    | .9    | .8     | .1      |         |         |         |         |         |         |      | 2.0   | 6.4                   |
| S                       | .5    | 11.2  | 4.3    | .4      |         |         |         |         |         |         |      | 16.5  | 6.1                   |
| SSW                     | .4    | 3.7   | 3.8    |         |         |         |         |         |         |         |      | 7.9   | 6.3                   |
| SW                      | .3    | 1.4   | 2.9    | .5      |         |         |         |         |         |         |      | 5.1   | 7.7                   |
| WSW                     | .4    | 2.4   | 1.2    | .5      |         |         |         |         |         |         |      | 4.5   | 6.7                   |
| W                       | .4    | 1.4   | 1.8    | .3      |         |         |         |         |         |         |      | 4.0   | 6.9                   |
| WNW                     | .1    | 1.1   |        |         |         |         |         |         |         |         |      | 1.2   | 4.9                   |
| NW                      | .8    | 2.4   | 1.2    | .3      |         |         |         |         |         |         |      | 4.6   | 5.7                   |
| NNW                     | .3    | 2.8   | 1.2    | .4      |         |         |         |         |         |         |      | 4.6   | 6.1                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 11.5  |                       |
|                         | 7.8   | 51.8  | 25.0   | 3.7     | .3      |         |         |         |         |         |      | 100.0 | 5.4                   |

TOTAL NUMBER OF OBSERVATIONS

759

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250

YOUNGSTOWN MAP OH

73-81

JUL

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 53 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 2.6   | 2.9    | 2.0     | .0      |         |         |         |         |         |      | 7.8   | 8.2                   |
| NNE                     | .2    | 1.0   | 1.0    | .3      | .0      |         |         |         |         |         |      | 2.6   | 7.2                   |
| NE                      | .1    | 1.5   | 1.6    | .3      |         |         |         |         |         |         |      | 3.5   | 7.0                   |
| ENE                     | .2    | 1.6   | .8     | .1      |         |         |         |         |         |         |      | 2.7   | 5.9                   |
| E                       | .4    | 3.7   | 1.4    | .3      | .0      |         |         |         |         |         |      | 5.9   | 6.1                   |
| ESE                     | .4    | 1.9   | 1.2    | .3      | .0      |         |         |         |         |         |      | 3.8   | 6.4                   |
| SE                      | .4    | 2.5   | 1.9    | .2      |         |         |         |         |         |         |      | 5.0   | 6.3                   |
| SSE                     | .2    | 1.2   | 1.1    | .1      |         |         |         |         |         |         |      | 2.6   | 6.5                   |
| S                       | .6    | 5.5   | 4.3    | .8      |         |         |         |         |         |         |      | 11.2  | 6.6                   |
| SSW                     | .5    | 2.8   | 3.2    | .7      | .0      |         |         |         |         |         |      | 7.2   | 7.1                   |
| SW                      | .6    | 3.5   | 4.9    | 2.4     | .0      |         |         |         |         |         |      | 11.4  | 8.1                   |
| WSW                     | .3    | 2.4   | 2.5    | 1.9     | .1      |         |         |         |         |         |      | 7.2   | 8.5                   |
| W                       | .3    | 2.6   | 2.9    | 1.5     | .0      | .0      |         |         |         |         |      | 7.4   | 7.9                   |
| WNW                     | .3    | 1.4   | 1.2    | .7      | .0      |         |         |         |         |         |      | 3.6   | 7.6                   |
| NW                      | .3    | 2.2   | 2.5    | 1.2     |         |         |         |         |         |         |      | 6.2   | 7.8                   |
| NNW                     | .2    | 1.2   | 1.8    | 1.5     | .0      |         |         |         |         |         |      | 4.8   | 9.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 7.0   |                       |
|                         | 5.4   | 17.7  | 35.2   | 14.5    | .3      | .0      |         |         |         |         |      | 100.0 | 6.9                   |

TOTAL NUMBER OF OBSERVATIONS

6323

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

AUG

MONTH

ALL WEATHER

CLASS

0000-0200

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | 1.9   | 1.1    | .3      |         |         |         |         |         |         |      | 3.7   | 6.3                   |
| NNE                     | .1    | .7    | .4     |         |         |         |         |         |         |         |      | 1.2   | 5.7                   |
| NE                      | .3    | 1.5   | 2.0    |         |         |         |         |         |         |         |      | 3.8   | 6.6                   |
| ENE                     |       | 2.7   | 1.2    |         |         |         |         |         |         |         |      | 4.0   | 5.8                   |
| E                       | .8    | 9.3   | 2.7    |         | .1      |         |         |         |         |         |      | 13.0  | 5.6                   |
| ESE                     |       | 4.2   | 1.1    | .4      |         |         |         |         |         |         |      | 5.7   | 6.0                   |
| SE                      | .7    | 1.8   | 1.9    |         |         |         |         |         |         |         |      | 4.4   | 5.8                   |
| SSE                     | .1    | 1.8   | .8     |         |         |         |         |         |         |         |      | 2.7   | 6.2                   |
| S                       | .4    | 6.7   | 3.8    |         |         |         |         |         |         |         |      | 10.9  | 6.0                   |
| SSW                     | 1.1   | 4.2   | 4.4    | .3      |         |         |         |         |         |         |      | 10.0  | 6.3                   |
| SW                      | 1.4   | 4.1   | 6.3    | 1.5     |         |         |         |         |         |         |      | 13.2  | 6.9                   |
| WSW                     | 1.0   | 1.6   | 2.5    | .7      |         |         |         |         |         |         |      | 5.7   | 7.0                   |
| W                       | .3    | 1.9   | 2.0    |         |         |         |         |         |         |         |      | 4.2   | 6.7                   |
| WNW                     |       | 1.0   | 1.2    |         |         |         |         |         |         |         |      | 2.2   | 6.6                   |
| NW                      | .7    | 1.1   | .4     |         |         |         |         |         |         |         |      | 2.2   | 5.1                   |
| NNW                     | .5    | .8    | .1     |         |         |         |         |         |         |         |      | 1.5   | 4.9                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 11.6  |                       |
|                         | 7.8   | 45.3  | 32.1   | 3.1     | .1      |         |         |         |         |         |      | 100.0 | 5.5                   |

TOTAL NUMBER OF OBSERVATIONS

733

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

AUG

MONTH

ALL WEATHER

CLASS

0300-0500

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 1.9   | .8     | .1      |         |         |         |         |         |         |      | 3.1   | 6.0                   |
| NNE                     |       | .8    | 1.0    |         |         |         |         |         |         |         |      | 1.8   | 6.7                   |
| NE                      | .1    | 1.8   | 1.9    |         |         |         |         |         |         |         |      | 3.8   | 6.5                   |
| ENE                     | .1    | 2.0   | 1.0    |         |         |         |         |         |         |         |      | 3.1   | 5.8                   |
| E                       | .5    | 6.8   | 3.1    |         |         |         |         |         |         |         |      | 10.5  | 5.6                   |
| ESE                     | .8    | 3.3   | 1.4    | .1      |         |         |         |         |         |         |      | 5.6   | 5.7                   |
| SE                      | .4    | 3.1   | 2.4    |         |         |         |         |         |         |         |      | 6.0   | 6.0                   |
| SSE                     |       | 2.6   | .7     |         |         |         |         |         |         |         |      | 3.3   | 6.0                   |
| S                       | 1.1   | 6.1   | 5.0    | .1      | .1      |         |         |         |         |         |      | 12.5  | 6.2                   |
| SSW                     | 1.0   | 3.1   | 2.7    |         |         |         |         |         |         |         |      | 6.8   | 5.9                   |
| SW                      | 1.1   | 4.8   | 4.6    | .5      |         | .1      |         |         |         |         |      | 11.1  | 6.7                   |
| WSW                     | 1.1   | 1.6   | 2.3    | .5      |         | .1      |         |         |         |         |      | 5.7   | 7.0                   |
| W                       | .7    | 2.7   | 2.2    | .4      |         |         |         |         |         |         |      | 6.0   | 6.5                   |
| WNW                     | .3    | 1.8   | .4     | .1      |         |         |         |         |         |         |      | 2.6   | 5.7                   |
| NW                      | .5    | 1.4   | .3     |         |         |         |         |         |         |         |      | 2.2   | 4.5                   |
| NNW                     | .4    | 1.4   | .7     | .1      |         |         |         |         |         |         |      | 2.6   | 5.8                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 13.5  |                       |
|                         | 8.4   | 45.1  | 30.4   | 2.2     | .1      | .3      |         |         |         |         |      | 100.0 | 5.3                   |

TOTAL NUMBER OF OBSERVATIONS

736



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-250  
STATIONYOUNGSTOWN MAP OH  
STATION NAME73-81  
YEARSAUG  
MONTHALL WEATHER  
CLASS0600-0800  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 53 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 1.4   | 1.6    | .4      |         |         |         |         |         |         |      | 3.5   | 7.0                   |
| NNE                     |       | 1.2   | 1.0    | .1      |         |         |         |         |         |         |      | 2.3   | 6.6                   |
| NE                      | .1    | 1.3   | 1.7    | .2      |         |         |         |         |         |         |      | 3.4   | 7.4                   |
| ENE                     | .1    | 1.3   | 1.0    |         |         |         |         |         |         |         |      | 2.4   | 6.2                   |
| E                       | .5    | 5.3   | 3.0    |         |         |         |         |         |         |         |      | 8.8   | 5.8                   |
| ESE                     | .2    | 3.3   | 3.1    |         |         |         |         |         |         |         |      | 6.6   | 6.1                   |
| SE                      | .8    | 3.3   | 2.8    | .2      |         |         |         |         |         |         |      | 7.1   | 6.0                   |
| SSE                     | .4    | 3.0   | 2.2    | .1      |         |         |         |         |         |         |      | 5.7   | 6.3                   |
| S                       | .6    | 5.4   | 6.6    |         |         |         |         |         |         |         |      | 12.7  | 6.6                   |
| SSW                     | .5    | 3.3   | 2.2    | .1      |         |         |         |         |         |         |      | 6.0   | 6.2                   |
| SW                      | .8    | 5.0   | 7.7    | 1.2     |         |         |         |         |         |         |      | 14.7  | 7.1                   |
| WSW                     | .5    | 2.4   | 2.8    | .6      |         |         |         |         |         |         |      | 6.3   | 7.0                   |
| W                       | 1.0   | 3.1   | 2.1    | .5      |         |         |         |         |         |         |      | 6.6   | 6.2                   |
| WNW                     |       | 1.0   | .8     |         |         |         |         |         |         |         |      | 1.8   | 6.5                   |
| NW                      | .6    | 1.1   | .6     | .2      |         |         |         |         |         |         |      | 2.5   | 6.1                   |
| NNW                     | .2    | .8    | .4     | .1      |         |         |         |         |         |         |      | 1.6   | 6.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 7.9   |                       |
|                         | 6.5   | 42.3  | 39.5   | 3.9     |         |         |         |         |         |         |      | 100.0 | 6.0                   |

TOTAL NUMBER OF OBSERVATIONS 828

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION 250 STATION NAME YOUNGSTOWN MAP OH YEARS 73-81 MONTH AUG  
 CLASS ALL WEATHER HOURS (L.S.T.) 0900-1100  
 CONDITION \_\_\_\_\_

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56  | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|-------|-----------------------|
| N                       | .5    | 2.2   | 1.4    | 1.9     |         |         |         |         |         |         | 5.9   | 8.1                   |
| NNE                     |       | 1.4   | 1.4    | 1.0     |         |         |         |         |         |         | 3.7   | 8.3                   |
| NE                      | .4    | 1.7   | 2.1    | .6      |         |         |         |         |         |         | 4.8   | 7.3                   |
| ENE                     |       | 1.2   | .6     | .1      |         |         |         |         |         |         | 2.0   | 6.6                   |
| E                       | .1    | 1.6   | 2.3    | .4      |         |         |         |         |         |         | 4.4   | 7.3                   |
| ESE                     | .2    | 1.6   | 1.2    |         |         |         |         |         |         |         | 3.1   | 6.2                   |
| SE                      |       | 3.1   | 2.8    | .6      |         |         |         |         |         |         | 6.6   | 7.3                   |
| SSE                     |       | 2.6   | 2.2    | .1      |         |         |         |         |         |         | 4.9   | 6.6                   |
| S                       | .7    | 4.0   | 5.8    | .2      |         |         |         |         |         |         | 10.8  | 6.9                   |
| SSW                     | .1    | 2.2   | 3.7    | .6      |         |         |         |         |         |         | 6.7   | 7.4                   |
| SW                      | .5    | 2.2   | 7.9    | 3.6     | .1      |         |         |         |         |         | 14.3  | 8.8                   |
| WSW                     | .1    | 2.0   | 5.6    | 2.6     |         |         |         |         |         |         | 10.3  | 8.6                   |
| W                       | .4    | 2.5   | 5.7    | 1.5     |         |         |         |         |         |         | 10.0  | 8.2                   |
| WNW                     | .2    | 1.2   | 2.1    | .2      |         |         |         |         |         |         | 3.8   | 7.1                   |
| NW                      | .2    | 2.3   | 2.2    | .4      |         |         |         |         |         |         | 5.2   | 6.8                   |
| NNW                     | .1    | .5    | 1.4    | .5      |         |         |         |         |         |         | 2.5   | 8.5                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         | 1.0   |                       |
|                         | 3.7   | 32.4  | 48.5   | 14.3    | .1      |         |         |         |         |         | 100.0 | 7.6                   |

TOTAL NUMBER OF OBSERVATIONS 809

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

729251  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .5    | 1.4   | 4.6    | 1.5     |         |         |         |         |         |         |      | 7.9   | 8.4                   |
| NNE                     |       | .2    | 1.1    | 1.2     |         |         |         |         |         |         |      | 2.6   | 10.1                  |
| NE                      | .1    | .7    | 2.1    | .4      |         |         |         |         |         |         |      | 3.3   | 8.1                   |
| ENE                     | .2    | .5    | 1.6    | .1      |         |         |         |         |         |         |      | 2.5   | 7.1                   |
| E                       |       | 2.7   | 1.8    | .1      |         |         |         |         |         |         |      | 4.7   | 6.5                   |
| ESE                     |       | 1.5   | 1.0    | .4      |         |         |         |         |         |         |      | 2.8   | 7.1                   |
| SE                      | .1    | 2.6   | 2.0    | .7      |         |         |         |         |         |         |      | 5.4   | 7.3                   |
| SSE                     | .1    | 1.2   | 1.5    | .4      |         |         |         |         |         |         |      | 3.2   | 7.2                   |
| S                       | .1    | 2.5   | 4.9    | 1.5     |         |         |         |         |         |         |      | 9.0   | 8.0                   |
| SSW                     | .1    | .6    | 2.8    | 1.2     |         |         |         |         |         |         |      | 4.8   | 9.1                   |
| SW                      |       | 2.6   | 7.0    | 5.4     |         |         |         |         |         |         |      | 15.0  | 9.3                   |
| WSW                     |       | 1.4   | 3.9    | 2.8     |         |         |         |         |         |         |      | 8.1   | 9.5                   |
| W                       | .5    | 2.3   | 5.9    | 3.8     |         |         |         |         |         |         |      | 12.6  | 8.9                   |
| WNW                     | .1    | 1.5   | 2.5    | 1.5     | .1      |         |         |         |         |         |      | 5.7   | 8.9                   |
| NW                      |       | 2.2   | 4.6    | 1.7     |         |         |         |         |         |         |      | 8.5   | 8.5                   |
| NNW                     |       | .5    | 1.7    | .9      | .1      |         |         |         |         |         |      | 3.2   | 9.3                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .7    |                       |
|                         | 2.0   | 24.4  | 49.0   | 23.6    | .2      |         |         |         |         |         |      | 100.0 | 8.5                   |

TOTAL NUMBER OF OBSERVATIONS

812

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .5    | 1.5   | 5.5    | 2.3     |         |         |         |         |         |         |      | 9.8   | 8.7                   |
| NNE                     |       | 1.3   | 2.0    | .2      |         |         |         |         |         |         |      | 3.5   | 7.6                   |
| NE                      | .1    | 2.0   | 2.3    | .5      |         |         |         |         |         |         |      | 4.9   | 7.3                   |
| ENE                     |       | .9    | .6     | .2      |         |         |         |         |         |         |      | 1.7   | 6.8                   |
| E                       | .2    | 2.4   | 2.7    | .1      |         |         |         |         |         |         |      | 5.5   | 6.6                   |
| ESE                     | .5    | .6    | .6     | .1      |         |         |         |         |         |         |      | 1.8   | 6.0                   |
| SE                      |       | 1.2   | 1.7    | .5      |         |         |         |         |         |         |      | 3.4   | 8.0                   |
| SSE                     | .1    | .9    | 1.2    | .1      |         |         |         |         |         |         |      | 2.3   | 7.2                   |
| S                       | .2    | 2.9   | 3.3    | 1.0     |         |         |         |         |         |         |      | 7.5   | 7.5                   |
| SSW                     | .1    | .7    | 2.4    | 1.1     |         |         |         |         |         |         |      | 4.4   | 9.1                   |
| SW                      | .2    | 2.6   | 8.0    | 3.3     |         |         |         |         |         |         |      | 14.1  | 8.9                   |
| WSW                     |       | .5    | 5.3    | 4.0     |         |         |         |         |         |         |      | 9.8   | 10.0                  |
| W                       | .1    | 2.8   | 3.7    | 2.0     |         |         |         |         |         |         |      | 8.6   | 8.4                   |
| WNW                     | .4    | 2.6   | 2.4    | 1.3     |         |         |         |         |         |         |      | 6.7   | 7.5                   |
| NW                      |       | 1.3   | 5.1    | 3.2     |         |         |         |         |         |         |      | 9.7   | 9.3                   |
| NNW                     | .1    | 1.0   | 3.1    | 1.8     |         |         |         |         |         |         |      | 6.0   | 9.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .2    |                       |
|                         | 2.7   | 25.2  | 49.9   | 21.9    |         |         |         |         |         |         |      | 100.0 | 8.3                   |

TOTAL NUMBER OF OBSERVATIONS

817

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

AUG  
MONTH  
1800-2000  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .5    | 5.4   | 4.9    | .7      |         |         |         |         |         |         |      | 11.5  | 6.8                   |
| NNE                     | .2    | 1.8   | 2.1    | .2      |         |         |         |         |         |         |      | 4.4   | 6.6                   |
| NE                      | .4    | 3.2   | 3.8    | .6      |         |         |         |         |         |         |      | 7.9   | 7.3                   |
| ENE                     | .1    | 1.0   | .9     |         |         |         |         |         |         |         |      | 2.0   | 6.4                   |
| E                       | .7    | 4.0   | 1.0    |         |         |         |         |         |         |         |      | 5.7   | 5.1                   |
| ESE                     | .1    | 2.8   | .5     |         |         |         |         |         |         |         |      | 3.4   | 5.1                   |
| SE                      | .7    | 2.4   | .7     | .4      |         |         |         |         |         |         |      | 4.3   | 5.7                   |
| SSE                     |       | 1.3   | .5     | .1      |         |         |         |         |         |         |      | 2.0   | 6.3                   |
| S                       | .5    | 6.8   | 3.0    |         |         |         |         |         |         |         |      | 10.4  | 5.7                   |
| SSW                     |       | 3.8   | 1.8    | .5      |         |         |         |         |         |         |      | 6.1   | 6.6                   |
| SW                      |       | 4.5   | 5.6    | 1.3     |         |         |         |         |         |         |      | 11.5  | 7.6                   |
| WSW                     | .1    | 2.6   | 2.0    | .5      |         |         |         |         |         |         |      | 5.1   | 7.0                   |
| W                       | .2    | 3.0   | 1.6    | .2      |         | .1      |         |         |         |         |      | 5.2   | 6.5                   |
| WNW                     |       | 2.1   | 1.0    | .1      |         |         |         |         |         |         |      | 3.2   | 6.0                   |
| NW                      | .4    | 3.9   | 1.3    | 1.0     |         |         |         |         |         |         |      | 6.6   | 6.7                   |
| NNW                     | .2    | 2.4   | 1.2    | .7      |         |         |         |         |         |         |      | 4.6   | 6.8                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 6.2   |                       |
|                         | 4.3   | 51.1  | 31.8   | 6.5     |         | .1      |         |         |         |         |      | 100.0 | 6.1                   |

TOTAL NUMBER OF OBSERVATIONS 820

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | 1.1   | 2.9   | 1.3    | .4      | .1      |         |         |         |         |         |      | 5.8   | 6.4                   |
| NNE                     | .1    | .9    | 1.1    |         |         |         |         |         |         |         |      | 2.1   | 6.2                   |
| NE                      | .1    | 5.0   | 3.7    | .3      |         |         |         |         |         |         |      | 9.1   | 6.4                   |
| ENE                     | .4    | 4.0   | 1.5    |         |         |         |         |         |         |         |      | 5.8   | 5.7                   |
| E                       | .9    | 7.8   | .9     |         |         |         |         |         |         |         |      | 9.6   | 5.1                   |
| ESE                     | .5    | 3.2   | .8     |         |         |         |         |         |         |         |      | 4.5   | 5.3                   |
| SE                      | .1    | 3.2   | .9     | .4      |         |         |         |         |         |         |      | 4.6   | 6.3                   |
| SSE                     | .1    | 1.6   | 1.5    | .3      |         |         |         |         |         |         |      | 3.4   | 6.8                   |
| S                       | .3    | 10.2  | 4.5    |         |         |         |         |         |         |         |      | 14.9  | 5.9                   |
| SSW                     | .7    | 3.8   | 3.6    | .1      |         |         |         |         |         |         |      | 8.2   | 6.5                   |
| SW                      |       | 3.8   | 5.2    | .5      |         |         |         |         |         |         |      | 9.5   | 7.1                   |
| WSW                     | .3    | 1.6   | 1.3    | 1.1     |         |         |         |         |         |         |      | 4.2   | 8.0                   |
| W                       | .8    | 1.6   | .9     |         | .1      |         |         |         |         |         |      | 3.4   | 5.8                   |
| WNW                     | .7    | .9    | .4     | .1      |         |         |         |         |         |         |      | 2.1   | 5.4                   |
| NW                      | .3    | 1.1   | .4     | .1      |         |         |         |         |         |         |      | 1.8   | 6.1                   |
| NNW                     | .4    | .9    | .1     | .1      |         |         |         |         |         |         |      | 1.6   | 5.3                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 9.1   |                       |
|                         | 6.7   | 52.4  | 28.0   | 3.4     | .3      |         |         |         |         |         |      | 100.0 | 5.6                   |

TOTAL NUMBER OF OBSERVATIONS

757

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725250

YOUNGSTOWN MAP OH

73-81

AUG

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .5    | 2.3   | 2.7    | 1.0     | .0      |         |         |         |         |         |      | 6.5   | 7.5                   |
| NNE                     | .1    | 1.1   | 1.3    | .4      |         |         |         |         |         |         |      | 2.7   | 7.4                   |
| NE                      | .2    | 2.1   | 2.5    | .3      |         |         |         |         |         |         |      | 5.1   | 7.0                   |
| ENE                     | .1    | 1.7   | 1.0    | .1      |         |         |         |         |         |         |      | 2.9   | 6.2                   |
| E                       | .5    | 4.9   | 2.2    | .1      | .0      |         |         |         |         |         |      | 7.7   | 5.8                   |
| ESE                     | .3    | 2.5   | 1.2    | .1      |         |         |         |         |         |         |      | 4.2   | 5.9                   |
| SE                      | .4    | 2.6   | 1.9    | .4      |         |         |         |         |         |         |      | 5.2   | 6.5                   |
| SSE                     | .1    | 1.9   | 1.3    | .1      |         |         |         |         |         |         |      | 3.5   | 6.5                   |
| S                       | .5    | 5.5   | 4.6    | .4      | .0      |         |         |         |         |         |      | 11.0  | 6.5                   |
| SSW                     | .4    | 2.7   | 2.9    | .5      |         |         |         |         |         |         |      | 6.6   | 7.0                   |
| SW                      | .5    | 3.7   | 6.6    | 2.2     | .0      | .0      |         |         |         |         |      | 13.0  | 7.9                   |
| WSW                     | .4    | 1.7   | 3.2    | 1.6     |         | .0      |         |         |         |         |      | 7.0   | 8.3                   |
| W                       | .5    | 2.5   | 3.0    | 1.1     | .0      | .0      |         |         |         |         |      | 7.2   | 7.6                   |
| WNW                     | .2    | 1.5   | 1.4    | .4      | .0      |         |         |         |         |         |      | 3.5   | 7.1                   |
| NW                      | .3    | 1.8   | 1.9    | .9      |         |         |         |         |         |         |      | 4.9   | 7.5                   |
| NNW                     | .3    | 1.0   | 1.1    | .6      | .0      |         |         |         |         |         |      | 3.0   | 7.5                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 6.1   |                       |
|                         | 5.2   | 39.5  | 38.9   | 10.1    | .1      | .0      |         |         |         |         |      | 100.0 | 6.7                   |

TOTAL NUMBER OF OBSERVATIONS

6312

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

12:250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

SEP

MONTH

ALL WEATHER

CLASS

0000-0200

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 2.1   | 2.4    | .5      |         |         |         |         |         |         |      | 5.3   | 7.3                   |
| NNE                     | .1    | .5    | .1     |         |         |         |         |         |         |         |      | .8    | 5.5                   |
| NE                      | .1    | 1.2   | 1.1    | .8      |         |         |         |         |         |         |      | 3.2   | 8.2                   |
| ENE                     | .4    | 1.2   | .8     | .3      |         |         |         |         |         |         |      | 2.6   | 6.4                   |
| E                       |       | 7.9   | 2.4    |         |         |         |         |         |         |         |      | 10.3  | 5.8                   |
| ESE                     | .4    | 2.9   | 1.7    | .4      |         |         |         |         |         |         |      | 5.4   | 6.4                   |
| SE                      | .4    | 3.4   | 4.2    | .7      |         |         |         |         |         |         |      | 8.7   | 7.2                   |
| SSE                     | .1    | 1.1   | 3.0    | .1      |         |         |         |         |         |         |      | 4.4   | 7.3                   |
| S                       | .8    | 5.9   | 5.9    | .1      |         |         |         |         |         |         |      | 12.8  | 6.2                   |
| SSW                     | .5    | 2.9   | 1.7    | .4      |         |         |         |         |         |         |      | 5.5   | 6.1                   |
| SW                      | 1.1   | 5.3   | 4.1    | .9      |         |         |         |         |         |         |      | 11.3  | 6.5                   |
| WSW                     | .1    | 2.6   | 3.0    |         |         |         |         |         |         |         |      | 5.8   | 6.6                   |
| W                       | .7    | 1.5   | 2.9    | .5      |         |         |         |         |         |         |      | 5.5   | 7.2                   |
| WNW                     | .4    | .7    | .7     | .1      |         |         |         |         |         |         |      | 1.8   | 6.7                   |
| NW                      | .7    | 2.5   | .8     | .5      |         |         |         |         |         |         |      | 4.5   | 6.2                   |
| NNW                     | .3    | 2.4   | .1     |         |         |         |         |         |         |         |      | 2.8   | 5.2                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 9.2   |                       |
|                         | 6.3   | 44.1  | 35.0   | 5.4     |         |         |         |         |         |         |      | 100.0 | 5.9                   |

TOTAL NUMBER OF OBSERVATIONS

758



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 2.2   | 2.5    | .4      |         |         |         |         |         |         |      | 5.4   | 6.7                   |
| NNE                     | .1    | .7    | 1.1    |         |         |         |         |         |         |         |      | 1.8   | 6.9                   |
| NE                      |       | 1.1   | 1.2    | .8      | .1      |         |         |         |         |         |      | 3.2   | 9.1                   |
| ENE                     | .1    | 2.4   | .9     | .3      |         |         |         |         |         |         |      | 3.7   | 6.1                   |
| E                       | .1    | 4.7   | 2.5    | .1      |         |         |         |         |         |         |      | 7.5   | 6.3                   |
| ESE                     | .3    | 3.4   | 1.3    | .1      |         |         |         |         |         |         |      | 5.1   | 5.9                   |
| SE                      | .5    | 3.5   | 4.1    | .3      |         |         |         |         |         |         |      | 8.4   | 6.4                   |
| SSE                     | .4    | 1.6   | 2.6    | .3      |         |         |         |         |         |         |      | 4.9   | 6.9                   |
| S                       | .4    | 5.1   | 7.1    | .7      |         |         |         |         |         |         |      | 13.3  | 7.1                   |
| SSW                     | .9    | 3.7   | 1.4    | .1      |         |         |         |         |         |         |      | 6.2   | 5.7                   |
| SW                      | .5    | 4.3   | 3.8    | .7      |         |         |         |         |         |         |      | 9.3   | 6.7                   |
| WSW                     | .7    | 2.8   | 3.4    | .3      |         |         |         |         |         |         |      | 7.1   | 6.6                   |
| W                       | .9    | 2.0   | 2.6    | 1.1     |         |         |         |         |         |         |      | 6.6   | 7.2                   |
| WNW                     |       | .7    | .4     | .4      |         |         |         |         |         |         |      | 1.4   | 7.7                   |
| NW                      | .3    | 2.4   | 1.1    | .1      |         |         |         |         |         |         |      | 3.8   | 6.1                   |
| NNW                     | .7    | 1.6   | .7     | .7      |         |         |         |         |         |         |      | 3.5   | 6.9                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 8.8   |                       |
|                         | 6.2   | 42.0  | 36.7   | 6.2     | .1      |         |         |         |         |         |      | 100.0 | 6.1                   |

TOTAL NUMBER OF OBSERVATIONS

761

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLAS

0600-0800  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 1.8   | 3.5    | .6      |         |         |         |         |         |         |      | 6.2   | 7.6                   |
| NNE                     |       | .8    | .9     | .4      |         |         |         |         |         |         |      | 2.0   | 7.5                   |
| NE                      | .1    | 1.0   | 1.3    | .5      |         |         |         |         |         |         |      | 2.9   | 7.8                   |
| ENE                     |       | 1.1   | 1.0    | .3      |         |         |         |         |         |         |      | 2.4   | 7.2                   |
| E                       |       | 4.8   | 2.8    | .4      |         |         |         |         |         |         |      | 7.9   | 6.5                   |
| ESE                     | .1    | 1.9   | 3.4    | .4      |         |         |         |         |         |         |      | 5.8   | 7.2                   |
| SE                      | .4    | 4.3   | 4.2    | .4      |         |         |         |         |         |         |      | 9.2   | 6.7                   |
| SSE                     | .3    | 1.9   | 1.6    | .3      |         |         |         |         |         |         |      | 4.0   | 6.9                   |
| S                       | .4    | 3.4   | 6.9    | .8      |         |         |         |         |         |         |      | 11.5  | 7.3                   |
| SSW                     | .9    | 3.3   | 3.8    | .3      |         |         |         |         |         |         |      | 8.2   | 6.5                   |
| SW                      | .4    | 4.9   | 6.7    | .9      |         |         |         |         |         |         |      | 12.8  | 7.0                   |
| WSW                     | .1    | 1.6   | 2.4    | .6      |         |         |         |         |         |         |      | 4.8   | 7.3                   |
| W                       | .3    | 1.9   | 2.9    | 1.0     |         |         |         |         |         |         |      | 6.0   | 7.6                   |
| WNW                     | .1    | 1.3   | .6     | .4      |         |         |         |         |         |         |      | 2.4   | 6.8                   |
| NW                      | .4    | 1.9   | 1.3    | .4      |         |         |         |         |         |         |      | 3.9   | 6.6                   |
| NNW                     | .1    | .8    | 1.3    | .1      |         |         |         |         |         |         |      | 2.3   | 6.9                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 7.7   |                       |
|                         | 3.8   | 36.5  | 44.5   | 7.6     |         |         |         |         |         |         |      | 100.0 | 6.5                   |

TOTAL NUMBER OF OBSERVATIONS

794

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725251

YOUNGSTOWN MAP OH

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

0900-1100

CLASS

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 2.0   | 3.7    | 2.8     | .1      |         |         |         |         |         |      | 8.6   | 9.1                   |
| NNE                     |       | .4    | 1.1    | 1.0     | .1      |         |         |         |         |         |      | 2.7   | 9.8                   |
| NE                      | .4    | .3    | 1.1    | 1.1     |         |         |         |         |         |         |      | 2.9   | 9.3                   |
| ENE                     | .3    | .4    | .8     |         |         |         |         |         |         |         |      | 1.4   | 6.5                   |
| E                       | .4    | 1.3   | 2.4    | .8      |         |         |         |         |         |         |      | 4.8   | 7.6                   |
| ESE                     |       | .9    | 2.3    | .8      |         |         |         |         |         |         |      | 3.9   | 8.5                   |
| SE                      | .1    | 2.0   | 1.6    | 1.6     |         |         |         |         |         |         |      | 5.5   | 8.6                   |
| SSE                     |       | 1.3   | 2.7    | .5      |         |         |         |         |         |         |      | 4.4   | 8.0                   |
| S                       | .3    | 3.6   | 7.0    | 1.0     |         |         |         |         |         |         |      | 11.8  | 7.6                   |
| SSW                     | .4    | 2.2   | 3.0    | 1.8     |         |         |         |         |         |         |      | 7.4   | 8.1                   |
| SW                      |       | 2.9   | 6.3    | 4.4     | .1      |         |         |         |         |         |      | 13.8  | 9.1                   |
| WSW                     |       | 1.5   | 3.9    | 2.9     | .4      |         |         |         |         |         |      | 8.8   | 9.8                   |
| W                       | .1    | 1.4   | 4.7    | 2.9     |         |         |         |         |         |         |      | 9.1   | 9.1                   |
| WNW                     |       | 1.5   | 2.3    | .8      |         |         |         |         |         |         |      | 4.6   | 8.1                   |
| NW                      | .3    | .4    | 1.5    | 1.9     |         |         |         |         |         |         |      | 4.1   | 10.1                  |
| NNW                     | .3    | 1.1   | 1.6    | 1.9     |         |         |         |         |         |         |      | 4.9   | 9.3                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.3   |                       |
|                         | 2.4   | 23.1  | 46.2   | 26.3    | .8      |         |         |         |         |         |      | 100.0 | 8.6                   |

TOTAL NUMBER OF OBSERVATIONS

788

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 14 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 2.6   | 4.1    | 2.1     |         |         |         |         |         |         |      | 8.9   | 8.5                   |
| NNE                     |       | .5    | 1.0    | .8      |         |         |         |         |         |         |      | 2.3   | 9.1                   |
| NE                      | .1    | .9    | 1.3    | .6      |         |         |         |         |         |         |      | 2.9   | 8.3                   |
| ENE                     |       | .5    | .6     | .4      |         |         |         |         |         |         |      | 1.5   | 8.0                   |
| E                       |       | 1.4   | 1.1    | .5      |         |         |         |         |         |         |      | 3.0   | 7.4                   |
| ESE                     |       | .1    | 1.0    | 1.0     |         |         |         |         |         |         |      | 2.1   | 10.3                  |
| SE                      | .1    | 1.6   | 2.5    | 1.4     |         |         |         |         |         |         |      | 5.7   | 8.6                   |
| SSE                     |       | .8    | 1.9    | .5      |         |         |         |         |         |         |      | 3.1   | 8.2                   |
| S                       | .3    | 1.4   | 5.0    | .8      |         |         |         |         |         |         |      | 7.4   | 8.2                   |
| SSW                     | .1    | 1.6   | 3.8    | 2.1     |         |         |         |         |         |         |      | 7.7   | 9.3                   |
| SW                      | .1    | 1.8   | 5.4    | 4.9     |         |         |         |         |         |         |      | 12.2  | 9.9                   |
| WSW                     |       | 1.8   | 4.0    | 4.3     | .1      |         |         |         |         |         |      | 10.2  | 10.0                  |
| W                       | .4    | 2.3   | 6.3    | 4.4     | .9      |         |         |         |         |         |      | 14.2  | 9.8                   |
| WNW                     | .3    | .5    | 3.1    | 2.0     |         |         |         |         |         |         |      | 5.9   | 9.8                   |
| NW                      |       | .6    | 3.3    | 3.9     | .1      |         |         |         |         |         |      | 7.9   | 10.7                  |
| NNW                     |       | .6    | 1.1    | 2.6     |         |         |         |         |         |         |      | 4.4   | 11.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .6    |                       |
|                         | 1.4   | 19.0  | 45.6   | 32.3    | 1.1     |         |         |         |         |         |      | 100.0 | 9.4                   |

TOTAL NUMBER OF OBSERVATIONS

796

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725257

YOUNGSTOWN MAP OH

73-81

SEP

STATION

STATION NAME

YEARS

MONTH

ALL WEATHER

1500-1700

CLAS

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 53 | ≥ 54 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 2.0   | 5.3    | 2.7     |         |         |         |         |         |         |      | 10.2  | 8.5                   |
| NNE                     |       | .8    | 1.9    | 1.0     |         |         |         |         |         |         |      | 3.7   | 9.1                   |
| NE                      |       | 1.3   | 1.4    | .8      |         |         |         |         |         |         |      | 3.4   | 7.9                   |
| ENE                     | .1    | .3    | .5     |         |         |         |         |         |         |         |      | .9    | 6.0                   |
| E                       | .3    | 2.0   | 1.0    | .4      |         |         |         |         |         |         |      | 3.7   | 6.5                   |
| ESE                     |       | .6    | .6     | .4      |         |         |         |         |         |         |      | 1.6   | 8.4                   |
| SE                      | .1    | 2.3   | 2.1    | 1.5     |         |         |         |         |         |         |      | 6.1   | 8.3                   |
| SSE                     | .1    | 1.3   | 1.4    | .5      |         |         |         |         |         |         |      | 3.3   | 7.7                   |
| S                       | .3    | 2.9   | 4.2    | 1.3     |         |         |         |         |         |         |      | 8.6   | 7.7                   |
| SSW                     | .3    | 2.1   | 2.8    | 1.0     |         |         |         |         |         |         |      | 6.2   | 7.7                   |
| SW                      |       | 2.4   | 5.3    | 3.2     | .1      |         |         |         |         |         |      | 11.0  | 9.0                   |
| WSW                     | .1    | 1.3   | 5.1    | 2.0     | .3      |         |         |         |         |         |      | 8.7   | 9.2                   |
| W                       | .5    | 1.6   | 3.7    | 4.3     | .4      |         |         |         |         |         |      | 10.5  | 9.9                   |
| WNW                     | .5    | .6    | 2.5    | 2.1     |         |         |         |         |         |         |      | 5.8   | 9.2                   |
| NW                      |       | 2.0   | 3.9    | 3.8     |         |         |         |         |         |         |      | 9.7   | 9.6                   |
| NNW                     | .1    | .3    | 2.4    | 3.3     | .3      |         |         |         |         |         |      | 6.3   | 10.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .4    |                       |
|                         | 2.7   | 23.7  | 44.1   | 28.2    | 1.0     |         |         |         |         |         |      | 100.0 | 8.8                   |

TOTAL NUMBER OF OBSERVATIONS

792

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

72-250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

SEP

MONTH

ALL WEATHER

CLASS

1800-2000

HOURLS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .9    | 5.9   | 4.1    | 1.0     |         |         |         |         |         |         |      | 11.9  | 6.5                   |
| NNE                     |       | 2.1   | 2.3    | .5      |         |         |         |         |         |         |      | 4.9   | 7.4                   |
| NE                      | .1    | 2.3   | 2.1    | .3      |         |         |         |         |         |         |      | 4.8   | 7.0                   |
| ENE                     | .1    | 1.0   | .4     |         |         |         |         |         |         |         |      | 1.5   | 5.4                   |
| E                       | .3    | 3.1   | 1.9    |         |         |         |         |         |         |         |      | 5.3   | 5.9                   |
| ESE                     | .3    | 1.8   | .5     | .1      |         |         |         |         |         |         |      | 2.6   | 5.5                   |
| SE                      | .4    | 4.4   | 2.8    | .1      |         |         |         |         |         |         |      | 7.7   | 6.1                   |
| SSE                     |       | 2.0   | 1.3    | .3      |         |         |         |         |         |         |      | 3.5   | 6.7                   |
| S                       | .9    | 4.5   | 3.5    | .8      |         |         |         |         |         |         |      | 9.7   | 6.5                   |
| SSW                     | .5    | 3.5   | 2.3    | .4      |         |         |         |         |         |         |      | 6.6   | 6.4                   |
| SW                      | .5    | 3.9   | 3.5    | .9      | .1      |         |         |         |         |         |      | 8.9   | 6.9                   |
| WSW                     | .4    | 1.6   | 2.4    | .8      |         |         |         |         |         |         |      | 5.1   | 7.5                   |
| W                       | .8    | 2.5   | 2.0    | .5      | .1      |         |         |         |         |         |      | 5.9   | 6.8                   |
| WNW                     | .8    | 1.8   | 1.0    | .1      | .1      |         |         |         |         |         |      | 3.8   | 6.2                   |
| NW                      | 1.1   | 3.3   | 2.8    | .9      |         |         |         |         |         |         |      | 8.0   | 6.5                   |
| NNW                     | .4    | 1.5   | 1.1    | .8      | .1      |         |         |         |         |         |      | 3.9   | 7.8                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 5.9   |                       |
|                         | 7.3   | 45.2  | 33.7   | 7.3     | .5      |         |         |         |         |         |      | 100.0 | 6.2                   |

TOTAL NUMBER OF OBSERVATIONS

797

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIF WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72525

STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

SEP

MONTH

ALL WEATHER

CLASS

2100-2300

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .8    | 2.7   | 1.8    | .4      |         |         |         |         |         |         |      | 4.9   | 6.8                   |
| NNE                     |       | 1.7   | 1.4    |         |         |         |         |         |         |         |      | 3.1   | 6.5                   |
| NE                      |       | 2.3   | 1.7    | .8      |         |         |         |         |         |         |      | 4.8   | 7.3                   |
| ENE                     | .1    | 2.2   | 1.0    |         |         |         |         |         |         |         |      | 3.4   | 5.6                   |
| E                       | .7    | 6.2   | 3.1    | .1      |         |         |         |         |         |         |      | 10.1  | 6.0                   |
| ESE                     | .5    | 2.2   | 1.4    | .4      |         |         |         |         |         |         |      | 4.6   | 6.4                   |
| SE                      | .4    | 3.4   | 3.8    | .8      |         |         |         |         |         |         |      | 8.3   | 7.1                   |
| SSE                     | .3    | 2.7   | 2.2    | .1      |         |         |         |         |         |         |      | 4.6   | 6.4                   |
| S                       | .3    | 6.7   | 4.8    | .5      |         |         |         |         |         |         |      | 11.6  | 6.7                   |
| SSW                     | .3    | 3.8   | 3.1    | .1      |         |         |         |         |         |         |      | 7.3   | 6.2                   |
| SW                      | .4    | 3.8   | 3.5    | .7      |         |         |         |         |         |         |      | 8.3   | 6.8                   |
| WSW                     | .7    | 2.2   | 1.6    | .8      |         |         |         |         |         |         |      | 5.2   | 6.7                   |
| W                       | .4    | 1.7   | 2.1    | .8      | .1      |         |         |         |         |         |      | 5.1   | 8.0                   |
| WNW                     | .5    | .9    | .4     |         |         |         |         |         |         |         |      | 1.8   | 5.0                   |
| NW                      |       | 2.9   | .5     | .3      |         |         |         |         |         |         |      | 3.6   | 6.0                   |
| NNW                     | .1    | 1.2   | .9     | .5      |         |         |         |         |         |         |      | 2.7   | 7.3                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 10.5  |                       |
|                         | 5.3   | 44.3  | 33.4   | 6.2     | .1      |         |         |         |         |         |      | 100.0 | 5.9                   |

TOTAL NUMBER OF OBSERVATIONS

769

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

72-25-  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.T.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 2.6   | 3.5    | 1.3     | .0      |         |         |         |         |         |      | 7.7   | 7.7                   |
| NNE                     | .0    | .9    | 1.2    | .5      | .0      |         |         |         |         |         |      | 2.7   | 8.0                   |
| NE                      | .1    | 1.3   | 1.4    | .7      | .0      |         |         |         |         |         |      | 3.5   | 8.0                   |
| ENE                     | .1    | 1.1   | .8     | .1      |         |         |         |         |         |         |      | 2.2   | 6.3                   |
| E                       | .2    | 3.9   | 2.1    | .3      |         |         |         |         |         |         |      | 6.5   | 6.3                   |
| ESE                     | .2    | 1.7   | 1.5    | .4      |         |         |         |         |         |         |      | 3.9   | 7.0                   |
| SE                      | .3    | 3.1   | 3.1    | .8      |         |         |         |         |         |         |      | 7.4   | 7.2                   |
| SSE                     | .1    | 1.5   | 2.1    | .3      |         |         |         |         |         |         |      | 4.0   | 7.2                   |
| S                       | .4    | 4.1   | 5.5    | .7      |         |         |         |         |         |         |      | 10.8  | 7.1                   |
| SSW                     | .5    | 2.9   | 2.7    | .8      |         |         |         |         |         |         |      | 6.9   | 7.1                   |
| SW                      | .4    | 3.6   | 4.8    | 2.1     | .0      |         |         |         |         |         |      | 11.0  | 7.9                   |
| WSW                     | .3    | 1.9   | 3.2    | 1.5     | .1      |         |         |         |         |         |      | 7.0   | 8.3                   |
| W                       | .5    | 1.9   | 3.4    | 2.0     | .2      |         |         |         |         |         |      | 7.9   | 8.6                   |
| WNW                     | .3    | 1.0   | 1.4    | .8      | .0      |         |         |         |         |         |      | 3.5   | 8.0                   |
| NW                      | .3    | 2.0   | 1.9    | 1.5     | .0      |         |         |         |         |         |      | 5.7   | 8.2                   |
| NNW                     | .2    | 1.2   | 1.2    | 1.2     | .0      |         |         |         |         |         |      | 3.9   | 8.7                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 5.5   |                       |
|                         | 4.4   | 34.6  | 40.0   | 15.0    | .5      |         |         |         |         |         |      | 100.0 | 7.2                   |

TOTAL NUMBER OF OBSERVATIONS 6255



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250  
STATIONYOUNGSTOWN MAP OH  
STATION NAME73-81  
YEARSOCT  
MONTHALL WEATHER  
CLASS0000-0200  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.5   | 2.2    | 1.1     |         |         |         |         |         |         |      | 4.7   | 8.2                   |
| NNE                     |       | .9    | .2     | .1      |         |         |         |         |         |         |      | 1.2   | 6.5                   |
| NE                      |       | 1.5   | 1.7    | .2      |         |         |         |         |         |         |      | 3.4   | 6.9                   |
| ENE                     | .4    | 1.8   | .7     |         | .4      |         |         |         |         |         |      | 3.3   | 7.1                   |
| E                       | .1    | 3.2   | 3.3    |         |         |         |         |         |         |         |      | 6.6   | 6.4                   |
| ESE                     | .2    | 1.1   | 2.6    | .9      |         |         |         |         |         |         |      | 4.7   | 8.2                   |
| SE                      | .1    | 2.7   | 5.2    | 1.3     |         |         |         |         |         |         |      | 9.4   | 7.8                   |
| SSE                     | .2    | 1.1   | 1.9    | .2      |         |         |         |         |         |         |      | 3.5   | 7.2                   |
| S                       |       | 3.5   | 8.9    | 1.0     |         |         |         |         |         |         |      | 13.4  | 7.4                   |
| SSW                     | .2    | 2.2   | 2.1    | .9      |         |         |         |         |         |         |      | 5.3   | 7.4                   |
| SW                      | .2    | 3.5   | 5.0    | 2.2     |         |         |         |         |         |         |      | 10.9  | 8.2                   |
| WSW                     | .2    | 1.7   | 3.3    | 2.9     | .1      |         |         |         |         |         |      | 8.3   | 8.8                   |
| W                       | .7    | 2.3   | 4.6    | 2.2     | .2      |         |         |         |         |         |      | 10.1  | 8.4                   |
| WNW                     |       | 1.9   | 1.2    | 1.0     |         |         |         |         |         |         |      | 4.1   | 8.2                   |
| NW                      | .6    | 1.3   | 1.5    | 1.0     |         |         |         |         |         |         |      | 4.4   | 7.6                   |
| NNW                     | .1    | .6    | .6     | .7      | .1      |         |         |         |         |         |      | 2.2   | 9.1                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 4.5   |                       |
|                         | 3.3   | 30.7  | 45.0   | 15.7    | .9      |         |         |         |         |         |      | 100.0 | 7.5                   |

TOTAL NUMBER OF OBSERVATIONS

823

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 2.1   | 2.1    | .6      |         |         |         |         |         |         |      | 4.8   | 7.8                   |
| NNE                     |       |       | .4     | .1      |         |         |         |         |         |         |      | .5    | 9.0                   |
| NE                      | .1    | 1.1   | .7     | .1      |         |         |         |         |         |         |      | 2.1   | 6.4                   |
| ENE                     |       | 1.7   | 1.5    | .1      | .2      |         |         |         |         |         |      | 3.6   | 7.7                   |
| E                       | .2    | 3.0   | 3.0    | .2      |         |         |         |         |         |         |      | 6.4   | 6.9                   |
| ESE                     | .1    | 2.0   | 2.5    | .7      |         |         |         |         |         |         |      | 5.3   | 7.7                   |
| SE                      | .1    | 2.0   | 4.3    | 1.0     |         |         |         |         |         |         |      | 7.4   | 8.0                   |
| SSE                     |       | 1.7   | 3.2    | .4      |         |         |         |         |         |         |      | 5.3   | 7.5                   |
| S                       | .2    | 3.0   | 9.0    | .6      |         |         |         |         |         |         |      | 12.9  | 7.4                   |
| SSW                     | .2    | 2.0   | 3.1    | .7      |         |         |         |         |         |         |      | 6.1   | 7.7                   |
| SW                      | .2    | 3.3   | 6.4    | 1.9     |         |         |         |         |         |         |      | 11.9  | 7.9                   |
| WSW                     | .4    | .9    | 3.8    | 1.0     | .2      |         |         |         |         |         |      | 6.3   | 8.7                   |
| W                       | .2    | 3.0   | 3.7    | 3.1     | .2      |         |         |         |         |         |      | 10.3  | 8.8                   |
| WNW                     | .1    | 1.7   | 1.4    | .6      |         |         |         |         |         |         |      | 3.8   | 7.1                   |
| NW                      | .4    | 2.0   | 1.6    | 1.2     |         |         |         |         |         |         |      | 5.2   | 7.9                   |
| NNW                     |       | 1.1   | .6     | .7      |         |         |         |         |         |         |      | 2.5   | 8.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 5.7   |                       |
|                         | 2.5   | 30.5  | 47.3   | 13.2    | .7      |         |         |         |         |         |      | 100.0 | 7.4                   |

TOTAL NUMBER OF OBSERVATIONS

809

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

720257  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0600-0800  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 1.7   | 1.7    | .9      |         |         |         |         |         |         |      | 4.5   | 7.5                   |
| NNE                     | .2    | .6    | .5     | .1      |         |         |         |         |         |         |      | 1.5   | 6.7                   |
| NE                      | .4    | 1.2   | 1.3    |         |         |         |         |         |         |         |      | 2.9   | 5.9                   |
| ENE                     |       | 1.0   | 1.1    | .2      |         |         |         |         |         |         |      | 2.3   | 7.3                   |
| E                       |       | 1.8   | 4.5    | .4      |         |         |         |         |         |         |      | 6.7   | 7.4                   |
| ESE                     | .1    | 1.3   | 2.6    | 1.2     | .1      |         |         |         |         |         |      | 5.3   | 8.5                   |
| SE                      | .4    | 1.9   | 4.6    | 1.2     |         |         |         |         |         |         |      | 8.0   | 7.9                   |
| SSE                     | .4    | 1.7   | 3.5    | .1      |         |         |         |         |         |         |      | 5.7   | 7.2                   |
| S                       | .1    | 3.5   | 9.6    | 1.0     |         |         |         |         |         |         |      | 14.2  | 7.7                   |
| SSW                     | .4    | 1.9   | 1.8    | 1.2     |         |         |         |         |         |         |      | 5.3   | 7.6                   |
| SW                      | .1    | 3.8   | 5.6    | 2.2     |         |         |         |         |         |         |      | 11.7  | 8.2                   |
| WSW                     | .5    | 2.2   | 3.8    | 2.7     | .2      |         |         |         |         |         |      | 9.4   | 8.9                   |
| W                       | .2    | 2.7   | 3.5    | 2.4     | .1      |         | .1      |         |         |         |      | 9.1   | 8.8                   |
| WNW                     | .2    | 1.2   | 1.1    | .9      |         |         |         |         |         |         |      | 3.4   | 7.8                   |
| NW                      |       | 1.3   | 2.3    | 1.0     |         |         |         |         |         |         |      | 4.6   | 8.2                   |
| NNW                     |       | .5    | .7     | .2      |         |         |         |         |         |         |      | 1.5   | 7.8                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.9   |                       |
|                         | 3.3   | 28.3  | 48.2   | 15.7    | .5      |         | .1      |         |         |         |      | 100.0 | 7.6                   |

TOTAL NUMBER OF OBSERVATIONS

823

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 1.2   | 2.9    | 2.2     |         |         |         |         |         |         |      | 6.6   | 9.4                   |
| NNE                     |       | .6    | .9     | .5      |         |         |         |         |         |         |      | 2.0   | 8.6                   |
| NE                      | .2    | 1.2   | .9     | .1      |         |         |         |         |         |         |      | 2.4   | 6.6                   |
| ENE                     |       | .6    | .9     | .6      |         |         |         |         |         |         |      | 2.1   | 8.6                   |
| E                       | .2    | 1.0   | 2.7    | .7      |         |         |         |         |         |         |      | 4.6   | 7.9                   |
| ESE                     | .1    | .7    | 1.5    | .5      |         |         |         |         |         |         |      | 2.8   | 7.8                   |
| SE                      | .1    | 1.6   | 3.3    | 1.2     |         |         |         |         |         |         |      | 6.2   | 8.5                   |
| SSE                     |       | .7    | 2.1    | 1.7     |         |         |         |         |         |         |      | 4.5   | 9.9                   |
| S                       | .2    | 2.3   | 7.1    | 2.8     |         |         |         |         |         |         |      | 12.4  | 8.6                   |
| SSW                     | .1    | .6    | 3.5    | 2.3     |         |         |         |         |         |         |      | 6.6   | 9.8                   |
| SW                      |       | 1.8   | 5.7    | 5.2     | .5      |         |         |         |         |         |      | 13.3  | 10.2                  |
| WSW                     | .4    | 1.1   | 3.2    | 4.6     | .5      |         |         |         |         |         |      | 9.8   | 10.7                  |
| W                       | .2    | 1.0   | 4.1    | 6.1     | .6      |         |         |         |         |         |      | 12.1  | 11.1                  |
| WNW                     | .2    | .4    | 1.0    | 1.5     |         |         |         |         |         |         |      | 3.0   | 9.9                   |
| NW                      |       | .9    | 3.9    | 2.7     | .1      |         |         |         |         |         |      | 7.6   | 9.7                   |
| NNW                     |       | .5    | 1.3    | 1.6     |         |         |         |         |         |         |      | 3.4   | 10.2                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .6    |                       |
|                         | 2.2   | 16.2  | 44.9   | 34.4    | 1.7     |         |         |         |         |         |      | 100.0 | 9.5                   |

TOTAL NUMBER OF OBSERVATIONS

820

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

725250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

OCT

MONTH

ALL WEATHER

CLASS

1200-1400

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 2.7   | 4.5    | 2.9     | .2      |         |         |         |         |         |      | 10.5  | 9.0                   |
| NNE                     |       | .5    | .7     | .1      |         |         |         |         |         |         |      | 1.3   | 8.3                   |
| NE                      | .5    | .8    | 1.7    | .4      |         |         |         |         |         |         |      | 3.4   | 7.1                   |
| ENE                     |       | .2    | .5     | .2      |         |         |         |         |         |         |      | 1.0   | 8.4                   |
| E                       |       | 1.1   | 1.6    | .4      |         |         |         |         |         |         |      | 3.0   | 7.8                   |
| ESE                     |       | .6    | 1.1    | .6      |         |         |         |         |         |         |      | 2.3   | 8.4                   |
| SE                      | .1    | .5    | 1.6    | 1.0     |         |         |         |         |         |         |      | 3.1   | 9.0                   |
| SSE                     | .1    | 1.7   | 2.1    | 1.0     |         |         |         |         |         |         |      | 4.1   | 8.6                   |
| S                       | .5    | 1.7   | 5.0    | 3.5     | .1      |         |         |         |         |         |      | 10.8  | 9.3                   |
| SSW                     | .1    | .2    | 4.4    | 4.0     |         |         |         |         |         |         |      | 8.7   | 10.4                  |
| SW                      |       | 1.1   | 4.2    | 6.8     | .2      |         |         |         |         |         |      | 12.3  | 11.1                  |
| WSW                     |       | .6    | 3.0    | 3.5     | .6      |         |         |         |         |         |      | 7.7   | 11.2                  |
| W                       | .4    | 1.2   | 4.1    | 7.9     | 1.0     | .1      |         |         |         |         |      | 14.6  | 11.5                  |
| WNW                     | .1    | .6    | 2.1    | 2.7     | .1      |         |         |         |         |         |      | 5.6   | 10.7                  |
| NW                      | .1    | .2    | 2.4    | 4.5     | .2      |         |         |         |         |         |      | 7.5   | 11.3                  |
| NNW                     |       | 1.1   | 1.1    | 1.1     | .1      |         |         |         |         |         |      | 3.4   | 9.6                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .5    |                       |
|                         | 2.2   | 14.2  | 40.0   | 40.4    | 2.7     | .1      |         |         |         |         |      | 100.0 | 10.1                  |

TOTAL NUMBER OF OBSERVATIONS

826

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72:250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

OCT

MONTH

ALL WEATHER

CLASS

1500-1700

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 1.7   | 3.5    | 3.1     | .1      |         |         |         |         |         |      | 8.7   | 9.5                   |
| NNE                     | .2    | 1.0   | 1.7    | .4      |         |         |         |         |         |         |      | 3.3   | 7.3                   |
| NE                      | .1    | .5    | 1.2    | .2      |         |         |         |         |         |         |      | 2.1   | 7.9                   |
| ENE                     |       | .6    | 1.0    | .1      | .1      |         |         |         |         |         |      | 1.8   | 8.1                   |
| E                       | .2    | 1.1   | 1.7    | .6      |         |         |         |         |         |         |      | 3.7   | 7.2                   |
| ESE                     |       | 1.0   | 1.0    | .2      |         |         |         |         |         |         |      | 2.2   | 7.3                   |
| SE                      | .4    | 1.6   | 2.6    | 1.2     |         |         |         |         |         |         |      | 5.7   | 8.2                   |
| SSE                     |       | .6    | 1.2    | .6      |         |         |         |         |         |         |      | 2.4   | 8.6                   |
| S                       |       | 2.4   | 5.1    | 3.1     | .1      |         |         |         |         |         |      | 10.7  | 9.1                   |
| SSW                     |       | 1.7   | 3.4    | 1.5     |         |         |         |         |         |         |      | 6.6   | 8.5                   |
| SW                      |       | 1.6   | 4.0    | 3.8     | .5      |         |         |         |         |         |      | 9.9   | 10.0                  |
| WSW                     |       | 1.5   | 3.4    | 3.8     | .1      |         |         |         |         |         |      | 8.8   | 9.9                   |
| W                       | .1    | .9    | 4.0    | 6.7     | 1.0     |         | .1      |         |         |         |      | 12.8  | 11.7                  |
| WNW                     | .1    | .6    | 2.2    | 2.0     | .4      |         |         |         |         |         |      | 5.3   | 10.5                  |
| NW                      |       | 1.6   | 3.8    | 4.8     | .4      | .1      |         |         |         |         |      | 10.6  | 10.7                  |
| NNW                     |       | .1    | 2.7    | 2.1     | .1      |         |         |         |         |         |      | 5.0   | 10.3                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .4    |                       |
|                         | 1.5   | 18.4  | 42.6   | 34.1    | 2.8     | .1      | .1      |         |         |         |      | 100.0 | 9.6                   |

TOTAL NUMBER OF OBSERVATIONS

819

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

704250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 2.9   | 3.4    | .7      |         |         |         |         |         |         |      | 7.3   | 7.2                   |
| NNE                     | .1    | .7    | 3.2    | .1      |         |         |         |         |         |         |      | 4.1   | 7.6                   |
| NE                      | .2    | 2.0   | 2.9    | .1      | .2      |         |         |         |         |         |      | 4.5   | 7.1                   |
| ENE                     | .1    | .6    | .1     |         |         |         |         |         |         |         |      | .9    | 4.9                   |
| E                       | .5    | 1.7   | 1.2    | .1      |         |         |         |         |         |         |      | 3.5   | 5.9                   |
| ESE                     | .1    | 2.0   | 1.5    | .4      |         |         |         |         |         |         |      | 3.9   | 6.6                   |
| SE                      | .2    | 2.8   | 2.8    | 1.5     |         |         |         |         |         |         |      | 7.3   | 7.9                   |
| SSE                     | .4    | 1.2   | 2.0    | .2      |         |         |         |         |         |         |      | 3.8   | 7.0                   |
| S                       | .2    | 6.6   | 5.1    | 1.2     |         |         |         |         |         |         |      | 13.2  | 7.0                   |
| SSW                     | .2    | 2.6   | 3.0    | .6      |         |         |         |         |         |         |      | 6.5   | 7.1                   |
| SW                      | .2    | 3.3   | 4.4    | .9      |         |         |         |         |         |         |      | 8.8   | 7.4                   |
| WSW                     | .4    | 1.1   | 2.7    | 1.5     | .5      |         |         |         |         |         |      | 6.1   | 9.3                   |
| W                       | .1    | 2.7   | 3.2    | 3.7     | .4      |         |         |         |         |         |      | 10.0  | 9.5                   |
| WNW                     | .2    | 2.6   | 2.1    | 1.1     |         | .1      |         |         |         |         |      | 6.1   | 7.9                   |
| NW                      | .2    | 2.3   | 3.2    | 1.2     | .1      |         |         |         |         |         |      | 7.1   | 8.0                   |
| NNW                     | .1    | 1.0   | 1.2    | .4      | .1      |         |         |         |         |         |      | 2.8   | 8.0                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 4.1   |                       |
|                         | 3.8   | 36.0  | 41.0   | 13.7    | 1.3     | .1      |         |         |         |         |      | 100.0 | 7.3                   |

TOTAL NUMBER OF OBSERVATIONS

820

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

72-250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

OCT  
MONTH

ALL WEATHER

CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 2.3   | 1.5    | 1.0     |         |         |         |         |         |         |      | 5.0   | 7.3                   |
| NNE                     |       | .5    | .4     | .2      |         |         |         |         |         |         |      | 1.1   | 8.1                   |
| NE                      | .1    | 1.2   | 2.6    | .2      | .1      |         |         |         |         |         |      | 4.3   | 7.5                   |
| ENE                     |       | 2.3   | 1.9    |         |         |         |         |         |         |         |      | 4.3   | 6.3                   |
| E                       |       | 2.9   | 1.2    | .1      |         |         |         |         |         |         |      | 4.3   | 5.9                   |
| ESE                     | .1    | 2.6   | 2.3    | .7      |         |         |         |         |         |         |      | 5.7   | 7.4                   |
| SE                      | .1    | 1.9   | 4.1    | 2.1     | .1      |         |         |         |         |         |      | 8.4   | 8.6                   |
| SSE                     | .2    | 1.2   | 2.6    | .4      |         |         |         |         |         |         |      | 4.4   | 7.4                   |
| S                       |       | 5.1   | 8.4    | .7      |         |         |         |         |         |         |      | 14.2  | 7.4                   |
| SSW                     | .4    | 2.3   | 2.6    | .5      |         |         |         |         |         |         |      | 5.7   | 7.4                   |
| SW                      | .1    | 2.3   | 4.0    | 2.2     |         |         |         |         |         |         |      | 8.6   | 8.3                   |
| WSW                     | .2    | 2.3   | 2.9    | 1.3     |         |         |         |         |         |         |      | 6.8   | 8.1                   |
| W                       | .1    | 3.0   | 4.7    | 3.3     | .5      |         |         |         |         |         |      | 11.7  | 9.3                   |
| WNW                     |       | 2.7   | 1.3    | .9      |         |         |         |         |         |         |      | 4.9   | 7.4                   |
| NW                      | .4    | .5    | 1.5    | .5      |         |         |         |         |         |         |      | 2.8   | 8.1                   |
| NNW                     | .1    | .9    | 1.3    | .9      |         |         |         |         |         |         |      | 3.2   | 8.2                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 4.9   |                       |
|                         | 2.2   | 34.0  | 43.3   | 14.9    | .7      |         |         |         |         |         |      | 100.0 | 7.4                   |

TOTAL NUMBER OF OBSERVATIONS

823



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 14 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 53 | ≥ 54 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 2.0   | 2.7    | 1.6     | .0      |         |         |         |         |         |      | 6.5   | 8.4                   |
| NNE                     | .1    | .6    | 1.0    | .2      |         |         |         |         |         |         |      | 1.9   | 7.6                   |
| NE                      | .2    | 1.2   | 1.5    | .2      | .0      |         |         |         |         |         |      | 3.1   | 6.9                   |
| ENE                     | .1    | 1.1   | 1.0    | .2      | .1      |         |         |         |         |         |      | 2.4   | 7.3                   |
| E                       | .2    | 2.0   | 2.4    | .3      |         |         |         |         |         |         |      | 4.8   | 6.9                   |
| ESE                     | .1    | 1.4   | 1.9    | .7      | .0      |         |         |         |         |         |      | 4.0   | 7.7                   |
| SE                      | .2    | 1.9   | 3.6    | 1.3     | .0      |         |         |         |         |         |      | 6.9   | 8.2                   |
| SSE                     | .2    | 1.2   | 2.3    | .6      |         |         |         |         |         |         |      | 4.2   | 7.9                   |
| S                       | .2    | 3.5   | 7.3    | 1.7     | .0      |         |         |         |         |         |      | 12.7  | 7.9                   |
| SSW                     | .2    | 1.7   | 3.0    | 1.5     |         |         |         |         |         |         |      | 6.4   | 8.4                   |
| SW                      | .1    | 2.6   | 4.9    | 3.1     | .2      |         |         |         |         |         |      | 10.9  | 9.0                   |
| WSW                     | .3    | 1.4   | 3.3    | 2.7     | .3      |         |         |         |         |         |      | 7.9   | 9.5                   |
| W                       | .3    | 2.1   | 4.0    | 4.4     | .5      | .0      | .0      |         |         |         |      | 11.3  | 10.1                  |
| WNW                     | .1    | 1.5   | 1.5    | 1.3     | .1      | .0      |         |         |         |         |      | 4.5   | 8.7                   |
| NW                      | .2    | 1.3   | 2.5    | 2.1     | .1      | .0      |         |         |         |         |      | 6.2   | 9.3                   |
| NNW                     | .0    | .7    | 1.2    | 1.0     | .1      |         |         |         |         |         |      | 3.0   | 9.1                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.1   |                       |
|                         | 2.6   | 26.0  | 44.0   | 22.8    | 1.4     | .0      | .0      |         |         |         |      | 100.0 | 8.3                   |

TOTAL NUMBER OF OBSERVATIONS 6563

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

121250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0000-0200  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.4   | 1.4    | .6      |         |         |         |         |         |         |      | 3.4   | 7.7                   |
| NNE                     |       | .6    | .6     | .1      |         |         |         |         |         |         |      | 1.4   | 7.3                   |
| NE                      | .3    | .9    | .8     | .1      |         |         |         |         |         |         |      | 2.0   | 6.5                   |
| ENE                     |       | .8    | .8     |         |         |         |         |         |         |         |      | 1.5   | 6.5                   |
| E                       | .3    | 2.3   | 1.6    | .5      |         |         |         |         |         |         |      | 4.7   | 7.0                   |
| ESE                     |       | .9    | 2.2    | 1.3     | .1      |         |         |         |         |         |      | 4.4   | 9.1                   |
| SE                      | .1    | 1.6   | 4.1    | 2.3     |         |         |         |         |         |         |      | 8.1   | 9.0                   |
| SSE                     |       | .9    | 1.5    | .9      |         |         |         |         |         |         |      | 3.3   | 8.5                   |
| S                       | .5    | 4.4   | 6.2    | 1.3     |         |         |         |         |         |         |      | 12.4  | 7.4                   |
| SSW                     | .3    | 1.9   | 3.0    | .8      | .1      |         |         |         |         |         |      | 6.1   | 7.7                   |
| SW                      | .1    | 3.0   | 4.3    | 3.2     | .1      |         |         |         |         |         |      | 10.8  | 8.8                   |
| WSW                     | .1    | 2.2   | 4.4    | 5.1     | .6      |         |         |         |         |         |      | 12.4  | 10.1                  |
| W                       | .4    | 4.2   | 6.1    | 6.0     |         | .1      |         |         |         |         |      | 16.7  | 9.4                   |
| WNW                     | .3    | 1.1   | 1.5    | 1.5     |         | .1      |         |         |         |         |      | 4.4   | 8.6                   |
| NW                      | .1    | .6    | 1.5    | 1.1     |         | .1      |         |         |         |         |      | 3.5   | 9.4                   |
| NNW                     | .1    | .4    | .9     | .5      |         |         |         |         |         |         |      | 1.9   | 9.1                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.8   |                       |
|                         | 2.5   | 27.2  | 40.9   | 25.2    | 1.0     | .3      |         |         |         |         |      | 100.0 | 8.4                   |

TOTAL NUMBER OF OBSERVATIONS

789

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

0300-0500  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 53 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 1.5   | 1.1    | .3      | .3      |         |         |         |         |         |      | 3.4   | 7.5                   |
| NNE                     | .3    | .6    | .5     |         |         |         |         |         |         |         |      | 1.4   | 6.1                   |
| NE                      | .3    | 1.4   | .4     | .1      |         |         |         |         |         |         |      | 2.2   | 5.8                   |
| ENE                     |       | .4    | .5     | .1      |         |         |         |         |         |         |      | 1.0   | 7.4                   |
| E                       | .1    | 2.6   | 2.2    | .5      |         |         |         |         |         |         |      | 5.4   | 7.2                   |
| ESE                     | .1    | 1.9   | 1.5    | .6      |         |         |         |         |         |         |      | 4.2   | 7.5                   |
| SE                      |       | 1.3   | 3.3    | 2.2     |         |         |         |         |         |         |      | 6.8   | 9.1                   |
| SSE                     | .1    | .8    | 1.9    | .6      |         |         |         |         |         |         |      | 3.4   | 8.2                   |
| S                       | .3    | 3.7   | 9.2    | 2.0     | .3      |         |         |         |         |         |      | 15.4  | 8.1                   |
| SSW                     | .3    | 2.4   | 1.8    | .5      |         |         |         |         |         |         |      | 5.0   | 6.7                   |
| SW                      | .1    | 5.2   | 4.8    | 2.8     | .1      |         |         |         |         |         |      | 13.1  | 8.2                   |
| WSW                     | .3    | 2.2   | 3.3    | 4.6     | .4      |         |         |         |         |         |      | 10.7  | 10.0                  |
| W                       | .6    | 1.8   | 5.7    | 4.8     | .8      |         |         |         |         |         |      | 13.8  | 10.1                  |
| WNW                     | .1    | 1.1   | 1.9    | 1.1     | .1      |         |         |         |         |         |      | 4.5   | 8.6                   |
| NW                      | .1    | .9    | 1.5    | 1.5     |         |         |         |         |         |         |      | 4.1   | 9.2                   |
| NNW                     |       | .4    | .9     | .5      | .3      |         |         |         |         |         |      | 2.0   | 10.4                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.6   |                       |
|                         | 2.9   | 28.2  | 40.7   | 22.4    | 2.2     |         |         |         |         |         |      | 100.0 | 8.2                   |

TOTAL NUMBER OF OBSERVATIONS

784

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72° 25'  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

NOV

MONTH

ALL WEATHER

CLASS

0600-0800

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 14 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | .5    | 1.4    | .5      | .1      |         |         |         |         |         |      | 2.5   | 9.3                   |
| NNE                     |       | .5    | .6     | .5      |         |         |         |         |         |         |      | 1.6   | 8.4                   |
| NE                      | .3    | .9    | .6     |         |         |         |         |         |         |         |      | 1.8   | 5.6                   |
| ENE                     | .1    | 1.0   | .9     |         |         |         |         |         |         |         |      | 2.0   | 6.6                   |
| E                       | .3    | 2.5   | 2.3    | 1.0     |         |         |         |         |         |         |      | 6.0   | 7.6                   |
| ESE                     | .3    | .4    | 2.1    | .6      | .1      |         |         |         |         |         |      | 3.5   | 9.1                   |
| SE                      |       | 1.5   | 3.0    | 2.1     |         |         |         |         |         |         |      | 6.6   | 9.2                   |
| SSE                     | .3    | .5    | 2.1    | 1.0     |         |         |         |         |         |         |      | 3.9   | 9.0                   |
| S                       | .3    | 2.4   | 7.5    | 2.6     | .3      |         |         |         |         |         |      | 13.0  | 8.5                   |
| SSW                     |       | 2.0   | 2.8    | 1.1     |         |         |         |         |         |         |      | 5.9   | 8.0                   |
| SW                      | .4    | 4.8   | 6.6    | 3.4     | .1      |         |         |         |         |         |      | 15.3  | 8.4                   |
| WSW                     | .3    | 1.9   | 3.0    | 2.5     | .1      |         |         |         |         |         |      | 7.8   | 9.4                   |
| W                       | .1    | 2.9   | 6.4    | 4.9     | .8      |         |         |         |         |         |      | 15.1  | 10.0                  |
| WNW                     |       | 1.8   | 2.3    | 1.0     | .3      |         |         |         |         |         |      | 5.3   | 8.5                   |
| NW                      | .3    | 1.1   | 1.8    | .4      | .1      |         |         |         |         |         |      | 3.6   | 7.8                   |
| NNW                     | .1    | .5    | .6     | 1.4     | .3      |         |         |         |         |         |      | 2.9   | 10.9                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.1   |                       |
|                         | 2.5   | 25.1  | 44.0   | 23.1    | 2.1     |         |         |         |         |         |      | 100.0 | 8.5                   |

TOTAL NUMBER OF OBSERVATIONS

797

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION 7225 STATION NAME YOUNGESTOWN MAP OH YEARS 73-81 MONTH NOV  
CLASS ALL WEATHER NORTH 0900-1100  
CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.1   | 2.1    | .8      |         |         |         |         |         |         |      | 4.0   | 8.5                   |
| NNE                     |       | .3    | .8     |         |         |         |         |         |         |         |      | 1.0   | 7.6                   |
| NE                      |       | .6    | 1.4    | .8      |         |         |         |         |         |         |      | 2.8   | 8.8                   |
| ENE                     |       | .4    | .9     | .1      |         |         |         |         |         |         |      | 1.4   | 8.0                   |
| E                       | .1    | 1.3   | 1.6    | .8      |         |         |         |         |         |         |      | 3.8   | 8.0                   |
| ESE                     | .3    | .4    | 1.5    | 1.9     |         |         |         |         |         |         |      | 4.2   | 10.3                  |
| SE                      | .1    | .8    | 2.5    | 2.0     | .3      |         |         |         |         |         |      | 5.7   | 10.0                  |
| SSE                     | .1    | .5    | 2.3    | .8      |         |         |         |         |         |         |      | 3.7   | 8.7                   |
| S                       |       | 2.1   | 5.3    | 2.5     | .1      |         |         |         |         |         |      | 10.1  | 9.0                   |
| SSW                     | .1    | .8    | 3.1    | 2.3     | .1      | .1      |         |         |         |         |      | 6.5   | 10.0                  |
| SW                      |       | 2.3   | 4.7    | 6.0     | .9      | .1      |         |         |         |         |      | 14.0  | 10.6                  |
| WSW                     |       | 2.3   | 4.5    | 4.9     | 1.3     |         |         |         |         |         |      | 13.0  | 10.6                  |
| W                       |       | 2.0   | 7.1    | 6.3     | 1.3     |         |         |         |         |         |      | 16.6  | 10.7                  |
| WNW                     |       | .9    | 3.0    | 2.5     | .3      |         |         |         |         |         |      | 6.7   | 10.5                  |
| NW                      |       | .5    | 2.4    | 1.4     |         |         |         |         |         |         |      | 4.3   | 10.0                  |
| NNW                     |       | .1    | .9     | 1.1     |         |         |         |         |         |         |      | 2.1   | 10.7                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .3    |                       |
|                         | .8    | 16.2  | 44.2   | 34.1    | 4.2     | .3      |         |         |         |         |      | 100.0 | 9.9                   |

TOTAL NUMBER OF OBSERVATIONS 794

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 12250 STATION NAME YOUNGSTOWN MAP OH YEARS 73-81 MONTH NOV  
 ALL WEATHER CLASS 1200-1400  
 CONDITION HOURS (L.S.T.)

| SPEED (KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN WIND SPEED |
|----------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------|
| N                    |       | .8    | 2.5    | 1.1     |         |         |         |         |         |         |      | 4.4   | 9.0             |
| NNE                  |       | .4    | 1.5    | .4      |         |         |         |         |         |         |      | 2.3   | 8.5             |
| NE                   |       | .9    | 1.1    | .5      |         |         |         |         |         |         |      | 2.5   | 8.2             |
| ENE                  |       | .3    | .3     | .1      |         |         |         |         |         |         |      | .6    | 6.8             |
| E                    | .1    | .5    | 1.3    | .4      |         |         |         |         |         |         |      | 2.3   | 7.7             |
| ESE                  | .1    | .6    | 1.1    | 1.1     |         |         |         |         |         |         |      | 3.0   | 9.2             |
| SE                   |       | .6    | 2.1    | 2.1     | .3      |         |         |         |         |         |      | 5.2   | 10.7            |
| SSE                  | .1    | .5    | 2.8    | 1.1     |         |         |         |         |         |         |      | 4.5   | 9.3             |
| S                    |       | .6    | 5.4    | 3.1     | .1      |         |         |         |         |         |      | 9.3   | 9.8             |
| SSW                  |       | .6    | 2.3    | 2.9     | .1      |         |         |         |         |         |      | 5.9   | 10.9            |
| SW                   | .1    | 1.0   | 4.1    | 6.9     | .4      |         |         |         |         |         |      | 12.6  | 11.1            |
| WSW                  | .1    | .6    | 3.1    | 6.9     | 1.5     | .3      |         |         |         |         |      | 12.6  | 12.3            |
| W                    | .3    | 1.4   | 4.6    | 8.3     | 2.1     | .5      |         |         |         |         |      | 17.2  | 12.3            |
| WNW                  |       | .6    | 2.9    | 3.6     | .3      |         |         |         |         |         |      | 7.4   | 10.8            |
| NW                   |       | .6    | 2.6    | 3.6     | .1      |         |         |         |         |         |      | 7.0   | 11.1            |
| NNW                  | .1    | .4    | .9     | 1.3     | .3      |         |         |         |         |         |      | 2.9   | 10.9            |
| VARBL                |       |       |        |         |         |         |         |         |         |         |      |       |                 |
| CALM                 |       |       |        |         |         |         |         |         |         |         |      | .4    |                 |
|                      | 1.0   | 10.4  | 38.7   | 43.6    | 5.2     | .8      |         |         |         |         |      | 100.0 | 10.8            |

TOTAL NUMBER OF OBSERVATIONS 796

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (LST)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .3    | 1.4   | 2.1    | 1.1     |         |         |         |         |         |         |      | 4.9   | 8.2                   |
| NNE                     |       | .5    | 1.6    | .6      |         |         |         |         |         |         |      | 2.8   | 8.4                   |
| NE                      |       | .9    | .4     |         |         |         |         |         |         |         |      | 1.3   | 6.2                   |
| ENE                     |       | .5    | .6     |         |         |         |         |         |         |         |      | 1.1   | 6.7                   |
| E                       |       | .8    | .9     | .4      | .1      |         |         |         |         |         |      | 2.1   | 8.9                   |
| ESE                     | .4    | .4    | 1.6    | .6      |         |         |         |         |         |         |      | 3.0   | 8.3                   |
| SE                      |       | 1.1   | 2.3    | 2.0     | .3      |         |         |         |         |         |      | 5.7   | 10.2                  |
| SSE                     | .1    | .6    | 2.1    | .5      |         |         |         |         |         |         |      | 3.4   | 8.3                   |
| S                       | .4    | 1.9   | 5.4    | 2.3     |         |         |         |         |         |         |      | 10.0  | 8.7                   |
| SSW                     | .3    | 1.3   | 3.0    | 2.3     |         |         |         |         |         |         |      | 6.8   | 9.3                   |
| SW                      | .3    | 1.5   | 3.7    | 5.1     |         |         |         |         |         |         |      | 10.5  | 10.2                  |
| WSW                     | .3    | .8    | 4.5    | 6.3     | .8      |         |         |         |         |         |      | 12.6  | 11.0                  |
| W                       |       | .9    | 5.3    | 7.3     | 1.1     | .3      |         |         |         |         |      | 14.9  | 11.8                  |
| WNW                     | .1    | 1.0   | 4.2    | 3.3     | .1      |         |         |         |         |         |      | 8.7   | 10.0                  |
| NW                      |       | .6    | 2.9    | 3.0     |         |         |         |         |         |         |      | 6.6   | 10.5                  |
| NNW                     |       | 1.1   | 1.9    | 1.5     |         |         |         |         |         |         |      | 4.5   | 9.6                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.0   |                       |
|                         | 2.0   | 15.3  | 42.7   | 36.4    | 2.4     | .3      |         |         |         |         |      | 100.0 | 9.8                   |

TOTAL NUMBER OF OBSERVATIONS

792

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

12 250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

NOV

MONTH

ALL WEATHER

CLASS

1830-2000

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 2.3   | 2.0    | .5      |         |         |         |         |         |         |      | 4.9   | 7.2                   |
| NNE                     | .1    | .9    | 1.3    | .1      |         |         |         |         |         |         |      | 2.4   | 6.5                   |
| NE                      | .1    | 1.3   | 1.4    | .4      |         |         |         |         |         |         |      | 3.1   | 7.0                   |
| ENE                     | .3    | .6    | .4     |         |         |         |         |         |         |         |      | 1.3   | 5.6                   |
| E                       | .1    | 1.5   | 1.4    | 1.0     | .3      |         |         |         |         |         |      | 4.3   | 8.2                   |
| ESE                     | .1    | 1.0   | 1.0    | 1.0     |         |         |         |         |         |         |      | 3.1   | 8.5                   |
| SE                      | .4    | 2.3   | 2.8    | 1.4     |         |         |         |         |         |         |      | 6.8   | 8.0                   |
| SSE                     |       | .9    | 1.8    | .6      |         |         |         |         |         |         |      | 3.3   | 8.2                   |
| S                       | .1    | 3.9   | 4.1    | 2.5     | .1      |         |         |         |         |         |      | 10.8  | 8.1                   |
| SSW                     | .4    | 3.0   | 3.5    | 1.4     |         |         |         |         |         |         |      | 8.3   | 7.5                   |
| SW                      | .6    | 1.6   | 3.8    | 3.1     | .5      |         |         |         |         |         |      | 9.6   | 9.3                   |
| WSW                     | .4    | .5    | 3.3    | 3.5     | .1      |         |         |         |         |         |      | 7.8   | 10.4                  |
| W                       | .5    | 2.6   | 7.0    | 7.3     | 1.3     |         |         |         |         |         |      | 18.6  | 10.4                  |
| WNW                     |       | 1.5   | 1.9    | 1.4     |         |         |         |         |         |         |      | 4.8   | 8.8                   |
| NW                      | .4    | 1.4   | 2.5    | 1.5     |         |         |         |         |         |         |      | 5.8   | 8.6                   |
| NNW                     | .3    | 1.4   | .5     | .8      |         |         |         |         |         |         |      | 2.9   | 7.7                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.6   |                       |
|                         | 3.9   | 26.5  | 38.4   | 26.4    | 2.3     |         |         |         |         |         |      | 100.0 | 8.5                   |

TOTAL NUMBER OF OBSERVATIONS

800



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-25  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | 1.3   | 1.9    | .4      | .1      |         |         |         |         |         |      | 4.1   | 7.4                   |
| NNE                     | .1    | 1.0   | .9     | .1      |         |         |         |         |         |         |      | 2.2   | 6.6                   |
| NE                      | .3    | 1.4   | .8     |         |         |         |         |         |         |         |      | 2.4   | 6.1                   |
| ENE                     |       | .9    | .8     | .1      |         |         |         |         |         |         |      | 1.8   | 6.3                   |
| E                       | .1    | 1.6   | 2.3    | 1.0     |         | .1      |         |         |         |         |      | 5.2   | 8.3                   |
| ESE                     | .1    | 1.4   | 1.5    | 1.4     | .3      |         |         |         |         |         |      | 4.7   | 8.9                   |
| SE                      |       | 2.2   | 2.7    | 1.6     | .1      |         |         |         |         |         |      | 6.6   | 8.7                   |
| SSE                     | .1    | 1.0   | 1.3    | 1.0     |         |         |         |         |         |         |      | 3.4   | 8.3                   |
| S                       | .5    | 4.1   | 3.7    | 1.3     | .1      |         |         |         |         |         |      | 9.6   | 7.4                   |
| SSW                     | .3    | 2.2   | 2.8    | 1.9     |         |         |         |         |         |         |      | 7.1   | 8.4                   |
| SW                      | .4    | 2.0   | 5.2    | 4.1     | .3      |         |         |         |         |         |      | 11.9  | 9.5                   |
| WSW                     | .1    | 1.3   | 3.3    | 5.4     | .6      |         |         |         |         |         |      | 10.8  | 10.9                  |
| W                       | .4    | 3.0   | 6.5    | 6.1     | .5      |         |         |         |         |         |      | 16.5  | 9.9                   |
| WNW                     | .3    | 1.3   | 1.8    | 1.3     |         |         |         |         |         |         |      | 4.6   | 8.3                   |
| NW                      | .1    | .1    | 1.3    | 1.0     |         |         |         |         |         |         |      | 2.5   | 9.7                   |
| NNW                     | .3    | 1.0   | .6     | 1.0     |         |         |         |         |         |         |      | 2.9   | 8.9                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.8   |                       |
|                         | 3.4   | 25.7  | 37.1   | 27.8    | 2.0     | .1      |         |         |         |         |      | 100.0 | 8.5                   |

TOTAL NUMBER OF OBSERVATIONS

789

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 APO WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

72-250  
 STATION

YOUNGSTOWN MAP OH  
 STATION NAME

73-81  
 YEARS

NOV  
 MONTH

ALL WEATHER  
 CLIM

ALL  
 HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 1.3   | 1.8    | .7      | .1      |         |         |         |         |         |      | 4.0   | 8.0                   |
| NNE                     | .1    | .6    | 1.0    | .2      |         |         |         |         |         |         |      | 1.9   | 7.5                   |
| NE                      | .1    | 1.0   | .9     | .2      |         |         |         |         |         |         |      | 2.3   | 6.9                   |
| ENE                     | .0    | .6    | .6     | .1      |         |         |         |         |         |         |      | 1.3   | 6.7                   |
| E                       | .1    | 1.6   | 1.7    | .7      | .0      | .0      |         |         |         |         |      | 4.2   | 7.8                   |
| ESE                     | .2    | .9    | 1.6    | 1.1     | .1      |         |         |         |         |         |      | 3.8   | 8.9                   |
| SE                      | .1    | 1.4   | 2.8    | 2.0     | .1      |         |         |         |         |         |      | 6.4   | 9.3                   |
| SSE                     | .1    | .7    | 2.0    | .8      |         |         |         |         |         |         |      | 3.6   | 8.6                   |
| S                       | .3    | 2.9   | 5.9    | 2.2     | .1      |         |         |         |         |         |      | 11.3  | 8.3                   |
| SSW                     | .2    | 1.8   | 2.8    | 1.6     | .0      | .0      |         |         |         |         |      | 6.5   | 8.6                   |
| SW                      | .3    | 2.7   | 4.7    | 4.3     | .3      | .0      |         |         |         |         |      | 12.2  | 9.5                   |
| WSW                     | .2    | 1.5   | 3.7    | 4.9     | .7      | .0      |         |         |         |         |      | 10.9  | 10.7                  |
| W                       | .3    | 2.3   | 6.1    | 6.4     | 1.0     | .1      |         |         |         |         |      | 16.2  | 10.6                  |
| WNW                     | .1    | 1.2   | 2.4    | 2.0     | .1      |         |         |         |         |         |      | 5.8   | 9.5                   |
| NW                      | .1    | .7    | 2.1    | 1.7     | .0      | .0      |         |         |         |         |      | 4.7   | 9.7                   |
| NNW                     | .1    | .7    | .9     | 1.0     | .1      |         |         |         |         |         |      | 2.8   | 9.7                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.2   |                       |
|                         | 2.4   | 21.8  | 40.8   | 29.9    | 2.7     | .2      |         |         |         |         |      | 100.0 | 9.1                   |

TOTAL NUMBER OF OBSERVATIONS 6391

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

12 25 1973 YOUNGSTOWN MAP OH

73-81

DEC

STATION

STATION NAME

YEARS

MONTHS

ALL WEATHER

CLAS

0000-0200

HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                      | .1    | .5    | 2.3    | .5      | .2      |         |         |         |         |         |      | 3.6   | 9.0                   |
| NNE                    | .1    | .1    | .8     | 1.0     |         |         |         |         |         |         |      | 2.1   | 10.5                  |
| NE                     |       | .8    | .5     | .2      | .1      |         |         |         |         |         |      | 1.7   | 7.9                   |
| ENE                    | .2    | .8    | .4     | .2      |         |         |         |         |         |         |      | 1.7   | 6.0                   |
| E                      |       | 1.7   | 2.9    | 1.1     |         |         |         |         |         |         |      | 5.0   | 8.4                   |
| ESE                    | .1    | .5    | 2.4    | 1.5     | .2      |         |         |         |         |         |      | 4.7   | 9.7                   |
| SE                     | .2    | 2.1   | 3.8    | 2.4     | .2      |         |         |         |         |         |      | 8.7   | 9.0                   |
| SSE                    | .1    | .5    | 1.6    | .7      |         |         |         |         |         |         |      | 2.9   | 8.9                   |
| S                      | .2    | 2.9   | 6.5    | 1.6     |         |         |         |         |         |         |      | 11.3  | 8.0                   |
| SSW                    | .4    | 2.1   | 4.1    | 1.1     |         |         |         |         |         |         |      | 7.6   | 7.9                   |
| SW                     | .4    | 2.2   | 5.8    | 4.1     | .4      |         |         |         |         |         |      | 12.8  | 9.7                   |
| WSW                    | .2    | .8    | 2.2    | 4.0     | .8      |         |         |         |         |         |      | 8.1   | 11.4                  |
| W                      |       | 1.8   | 3.5    | 6.5     | 1.7     | .2      |         |         |         |         |      | 13.8  | 12.0                  |
| WNW                    |       | .6    | 2.8    | 1.8     | .2      |         |         |         |         |         |      | 5.5   | 10.3                  |
| NW                     | .2    | 1.1   | 1.8    | 2.8     | .1      |         |         |         |         |         |      | 6.1   | 10.3                  |
| NNW                    |       | .5    | .7     | 1.0     |         |         |         |         |         |         |      | 2.2   | 10.6                  |
| VARBL                  |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                   |       |       |        |         |         |         |         |         |         |         |      | 2.2   |                       |
|                        | 2.4   | 18.3  | 42.2   | 30.5    | 4.1     | .2      |         |         |         |         |      | 100.0 | 9.4                   |

TOTAL NUMBER OF OBSERVATIONS

825

1  
2

FEDERAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72-250  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

DEC

MONTH

ALL WEATHER

CLASS

0300-0500

HOURE (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | .6    | 2.3    | 1.5     |         |         |         |         |         |         |      | 4.6   | 9.1                   |
| NNE                     |       | .5    | .4     | .4      | .1      |         |         |         |         |         |      | 1.4   | 9.0                   |
| NE                      | .1    | .7    | 1.4    |         |         |         |         |         |         |         |      | 2.2   | 6.8                   |
| ENE                     |       | .6    |        |         |         |         |         |         |         |         |      | .6    | 5.4                   |
| E                       | .2    | 2.0   | 3.5    | .9      | .1      |         |         |         |         |         |      | 6.7   | 8.0                   |
| ESE                     | .1    | 1.6   | 2.2    | 2.0     | .4      |         |         |         |         |         |      | 6.3   | 9.1                   |
| SE                      |       | .6    | 4.3    | 2.0     | .1      |         |         |         |         |         |      | 7.0   | 9.3                   |
| SSE                     | .1    | .4    | 2.1    | .9      |         |         |         |         |         |         |      | 3.5   | 8.9                   |
| S                       | .5    | 2.6   | 7.3    | 1.1     | .1      |         |         |         |         |         |      | 11.6  | 8.0                   |
| SSW                     | .1    | 1.7   | 3.3    | .7      |         |         |         |         |         |         |      | 5.9   | 8.0                   |
| SW                      | .2    | 2.3   | 4.8    | 4.1     | .5      |         |         |         |         |         |      | 12.0  | 9.8                   |
| WSW                     | .1    | .9    | 4.3    | 5.2     | .4      |         |         |         |         |         |      | 10.9  | 11.0                  |
| W                       |       | 1.2   | 3.8    | 6.5     | .7      |         |         |         |         |         |      | 12.3  | 11.4                  |
| WNW                     |       | .7    | 1.0    | 1.7     | .2      | .1      |         |         |         |         |      | 3.8   | 10.7                  |
| NW                      |       | .6    | 2.7    | 3.7     | .2      |         |         |         |         |         |      | 7.3   | 11.0                  |
| NNW                     | .2    |       | 1.1    | .5      | .1      |         |         |         |         |         |      | 2.0   | 9.8                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.1   |                       |
|                         | 2.0   | 17.1  | 44.5   | 31.1    | 3.1     | .1      |         |         |         |         |      | 100.0 | 9.3                   |

TOTAL NUMBER OF OBSERVATIONS

811

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

3600-0800  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.2   | 1.6    | 1.1     |         |         |         |         |         |         |      | 3.9   | 9.0                   |
| NNE                     |       | .6    | .2     | .6      | .4      |         |         |         |         |         |      | 1.8   | 11.1                  |
| NE                      |       | .7    | 1.6    | .1      |         |         |         |         |         |         |      | 2.4   | 7.2                   |
| ENE                     |       | .7    | 1.1    |         | .2      |         |         |         |         |         |      | 2.1   | 8.2                   |
| E                       |       | 1.9   | 2.3    | 1.0     |         |         |         |         |         |         |      | 5.2   | 8.0                   |
| ESE                     |       | 1.2   | 2.8    | 1.6     | .1      |         |         |         |         |         |      | 5.7   | 9.5                   |
| SE                      |       | 2.1   | 3.6    | 2.4     | .1      |         |         |         |         |         |      | 8.2   | 9.0                   |
| SSE                     |       | .7    | 2.9    | .4      | .1      |         |         |         |         |         |      | 4.1   | 8.1                   |
| S                       | .4    | 3.3   | 8.4    | 1.7     |         |         |         |         |         |         |      | 13.7  | 7.9                   |
| SSW                     |       | 1.7   | 3.3    | 1.2     |         |         |         |         |         |         |      | 6.2   | 8.3                   |
| SW                      | .1    | 1.6   | 4.7    | 4.7     |         |         |         |         |         |         |      | 11.2  | 10.1                  |
| WSW                     | .1    | 1.1   | 4.5    | 3.5     | .1      |         |         |         |         |         |      | 9.3   | 10.1                  |
| W                       |       | .6    | 3.9    | 5.8     | .7      | .2      |         |         |         |         |      | 11.3  | 11.8                  |
| WNW                     |       | .8    | 1.9    | 2.2     | .2      | .1      |         |         |         |         |      | 5.3   | 10.5                  |
| NW                      | .1    | 1.0   | 2.8    | 2.1     | .2      |         |         |         |         |         |      | 6.2   | 10.0                  |
| NNW                     |       | .4    | 1.2    | 1.0     |         |         |         |         |         |         |      | 2.5   | 10.0                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .8    |                       |
|                         | .7    | 19.6  | 46.8   | 29.3    | 2.3     | .4      |         |         |         |         |      | 100.0 | 9.4                   |

TOTAL NUMBER OF OBSERVATIONS

825

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

12125  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

0900-1100  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | .5    | 1.1    | .6      | .4      |         |         |         |         |         |      | 2.5   | 9.8                   |
| NNE                     | .1    | .1    | .7     | 1.5     | .1      |         |         |         |         |         |      | 2.5   | 10.7                  |
| NE                      | .1    |       | 1.0    | .5      |         |         |         |         |         |         |      | 1.6   | 10.2                  |
| ENE                     |       | .6    | 1.3    | .2      |         |         |         |         |         |         |      | 2.2   | 8.3                   |
| E                       | .1    | .4    | 2.1    | .7      | .2      |         |         |         |         |         |      | 3.5   | 9.8                   |
| ESE                     |       | 1.1   | 2.4    | 1.3     |         |         |         |         |         |         |      | 4.8   | 8.8                   |
| SE                      |       | 1.0   | 4.8    | 2.9     | .1      |         |         |         |         |         |      | 8.8   | 10.1                  |
| SSE                     |       | .8    | 2.4    | 1.2     |         |         |         |         |         |         |      | 4.5   | 9.0                   |
| S                       |       | 1.9   | 6.5    | 2.7     |         |         |         |         |         |         |      | 11.2  | 9.0                   |
| SSW                     | .1    | 1.1   | 3.9    | 3.0     |         |         |         |         |         |         |      | 8.1   | 9.5                   |
| SW                      | .1    | 1.5   | 4.8    | 5.0     |         | .1      |         |         |         |         |      | 11.5  | 10.2                  |
| WSW                     | .2    | 1.0   | 3.9    | 6.9     | .5      | .1      |         |         |         |         |      | 12.6  | 11.4                  |
| W                       | .1    | 1.2   | 2.8    | 6.2     | .8      |         |         |         |         |         |      | 11.2  | 11.6                  |
| WNW                     | .1    | .7    | 1.9    | 2.3     | .1      |         |         |         |         |         |      | 5.2   | 10.4                  |
| NW                      |       | .7    | 1.8    | 2.4     | .1      |         |         |         |         |         |      | 5.1   | 10.5                  |
| NNW                     | .2    | .5    | 1.0    | 2.1     | .2      |         |         |         |         |         |      | 4.0   | 10.7                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .6    |                       |
|                         | 1.3   | 13.1  | 42.5   | 39.5    | 2.7     | .2      |         |         |         |         |      | 100.0 | 10.1                  |

TOTAL NUMBER OF OBSERVATIONS 625

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

**SURFACE WINDS**

72:250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1200-1400  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | .2    | 1.2    | 2.4     | .2      |         |         |         |         |         |      | 4.1   | 11.5                  |
| NNE                     |       | .5    | .6     | .8      | .1      |         |         |         |         |         |      | 2.1   | 10.6                  |
| NE                      |       | .2    | .2     | .6      |         |         |         |         |         |         |      | 1.1   | 10.1                  |
| ENE                     | .1    | .4    | .6     | .7      |         |         |         |         |         |         |      | 1.8   | 9.3                   |
| E                       |       | .7    | 1.2    | .1      | .1      |         |         |         |         |         |      | 2.2   | 8.7                   |
| ESE                     | .1    | .4    | 1.9    | 1.1     | .2      |         |         |         |         |         |      | 3.8   | 9.6                   |
| SE                      |       | 1.1   | 3.8    | 2.3     |         |         |         |         |         |         |      | 7.1   | 9.5                   |
| SSE                     | .1    | .6    | 2.2    | 1.6     |         |         |         |         |         |         |      | 4.5   | 9.1                   |
| S                       | .2    | 2.4   | 4.4    | 2.4     | .1      |         |         |         |         |         |      | 9.6   | 8.7                   |
| SSW                     |       | .4    | 2.5    | 3.9     | .4      |         |         |         |         |         |      | 7.1   | 11.5                  |
| SW                      | .1    | 1.1   | 3.9    | 7.7     | .5      | .1      |         |         |         |         |      | 13.4  | 11.5                  |
| WSW                     |       | .8    | 3.3    | 7.5     | .7      | .2      |         |         |         |         |      | 12.6  | 12.1                  |
| W                       | .1    | 1.0   | 3.3    | 8.1     | 1.0     | .1      |         |         |         |         |      | 13.6  | 12.1                  |
| WNW                     |       |       | 2.2    | 3.4     | .6      |         |         |         |         |         |      | 6.2   | 12.2                  |
| NW                      |       | .4    | 2.2    | 3.4     | .5      | .1      |         |         |         |         |      | 6.5   | 11.5                  |
| NNW                     |       | .6    | .8     | 1.9     | .2      |         |         |         |         |         |      | 3.6   | 11.5                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .7    |                       |
|                         | .8    | 10.8  | 34.3   | 48.1    | 4.7     | .6      |         |         |         |         |      | 100.0 | 10.9                  |

TOTAL NUMBER OF OBSERVATIONS

826

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1500-1700  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .4    | .9    | 2.1    | 2.0     | .1      |         |         |         |         |         |      | 5.4   | 9.5                   |
| NNE                     |       | .7    | 1.6    | .6      |         |         |         |         |         |         |      | 2.9   | 8.7                   |
| NE                      | .1    | .9    | .1     | .5      |         |         |         |         |         |         |      | 1.6   | 7.5                   |
| ENE                     |       | .7    |        | .1      |         |         |         |         |         |         |      | .9    | 6.1                   |
| E                       |       | .9    | 1.7    | .2      |         |         |         |         |         |         |      | 2.8   | 7.9                   |
| ESE                     | .2    | 1.1   | 2.2    | .9      |         |         |         |         |         |         |      | 4.4   | 7.9                   |
| SE                      |       | 1.6   | 2.8    | 2.4     | .1      |         |         |         |         |         |      | 7.0   | 9.2                   |
| SSE                     |       | .1    | 2.8    | .7      |         |         |         |         |         |         |      | 3.7   | 9.2                   |
| S                       |       | 1.7   | 6.1    | 2.1     |         |         |         |         |         |         |      | 9.9   | 8.8                   |
| SSW                     |       | .9    | 2.4    | 2.6     |         |         |         |         |         |         |      | 5.9   | 9.9                   |
| SW                      |       | 1.7   | 4.4    | 5.0     | .2      |         |         |         |         |         |      | 11.3  | 10.6                  |
| WSW                     |       | 1.1   | 4.3    | 5.9     | 1.1     |         |         |         |         |         |      | 12.3  | 11.4                  |
| W                       | .1    | 1.6   | 3.5    | 9.0     | 1.1     | .4      | .1      |         |         |         |      | 15.9  | 12.0                  |
| WNW                     |       | .9    | 2.0    | 2.9     |         |         |         |         |         |         |      | 5.7   | 10.7                  |
| NW                      | .1    | .7    | 3.3    | 2.8     | .2      |         |         |         |         |         |      | 7.2   | 10.3                  |
| NNW                     |       | .7    | .5     | 1.3     | .5      |         |         |         |         |         |      | 3.0   | 11.7                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | .2    |                       |
|                         | 1.0   | 16.1  | 39.8   | 39.0    | 3.9     | .4      | .1      |         |         |         |      | 100.0 | 10.1                  |

TOTAL NUMBER OF OBSERVATIONS

820



2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# **SURFACE WINDS**

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

1800-2000  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | 1.7   | 3.0    | 1.5     | .1      |         |         |         |         |         |      | 6.4   | 8.5                   |
| NNE                     | .2    | .4    | .8     | .2      | .1      |         |         |         |         |         |      | 1.8   | 8.5                   |
| NE                      |       | 1.3   | 1.2    | .4      |         |         |         |         |         |         |      | 2.9   | 7.3                   |
| ENE                     | .1    | .2    | .1     |         |         |         |         |         |         |         |      | .5    | 5.5                   |
| E                       |       | 1.6   | 1.5    | .1      |         |         |         |         |         |         |      | 3.2   | 6.7                   |
| ESE                     | .2    | 1.7   | 3.2    | .6      |         |         |         |         |         |         |      | 5.7   | 7.5                   |
| SE                      |       | 1.8   | 3.4    | 2.1     |         |         |         |         |         |         |      | 7.3   | 8.9                   |
| SSE                     | .2    | .8    | 1.2    | 1.0     |         |         |         |         |         |         |      | 3.3   | 8.2                   |
| S                       | .5    | 1.6   | 5.7    | 2.1     |         |         |         |         |         |         |      | 9.8   | 8.4                   |
| SSW                     | .5    | 1.6   | 2.3    | 1.2     |         |         |         |         |         |         |      | 5.6   | 8.1                   |
| SW                      |       | 1.7   | 5.3    | 5.1     |         |         |         |         |         |         |      | 12.1  | 9.7                   |
| WSW                     | .1    | 1.3   | 4.0    | 3.8     | 1.0     |         |         |         |         |         |      | 10.2  | 10.6                  |
| W                       |       | 1.9   | 4.0    | 6.2     | 1.9     |         |         |         |         |         |      | 14.1  | 11.6                  |
| WNW                     | .1    | 1.0   | 1.6    | 2.3     |         |         |         |         |         |         |      | 5.0   | 9.7                   |
| NW                      | .5    | 1.5   | 1.8    | 2.9     | .2      |         |         |         |         |         |      | 6.9   | 9.9                   |
| NNW                     | .1    | .7    | 1.1    | .2      |         |         |         |         |         |         |      | 2.2   | 7.6                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.2   |                       |
|                         | 2.8   | 20.8  | 40.2   | 29.6    | 3.4     |         |         |         |         |         |      | 100.0 | 9.0                   |

TOTAL NUMBER OF OBSERVATIONS

825

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-251  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

2100-2300  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       |       | 1.3   | 2.1    | 1.0     |         |         |         |         |         |         |      | 4.4   | 8.7                   |
| NNE                     |       |       | 1.1    | .9      | .1      |         |         |         |         |         |      | 2.1   | 10.8                  |
| NE                      | .1    | 1.1   | .9     | .4      |         |         |         |         |         |         |      | 2.4   | 7.2                   |
| ENE                     | .2    | 1.1   | .6     |         |         |         |         |         |         |         |      | 2.0   | 5.9                   |
| E                       | .1    | 2.0   | 2.0    | .5      |         |         |         |         |         |         |      | 4.5   | 7.1                   |
| ESE                     | .2    | .7    | 2.8    | 1.5     |         |         |         |         |         |         |      | 5.3   | 9.0                   |
| SE                      | .1    | .7    | 3.8    | 1.8     |         |         |         |         |         |         |      | 6.5   | 9.1                   |
| SSE                     | .1    | 1.1   | 1.1    | .9      |         |         |         |         |         |         |      | 3.2   | 8.4                   |
| S                       | .2    | 2.3   | 5.3    | 3.4     |         |         |         |         |         |         |      | 11.2  | 8.9                   |
| SSW                     | .1    | .9    | 3.2    | 2.0     |         |         |         |         |         |         |      | 6.1   | 9.2                   |
| SW                      |       | 2.4   | 4.9    | 3.8     |         |         |         |         |         |         |      | 11.1  | 9.3                   |
| WSW                     | .2    | 1.0   | 3.2    | 3.9     | 1.2     | .1      |         |         |         |         |      | 9.6   | 11.4                  |
| W                       | .1    | 2.0   | 5.3    | 9.0     | 1.1     |         |         |         |         |         |      | 17.5  | 11.4                  |
| WNW                     |       | .4    | 1.5    | 2.7     |         |         |         |         |         |         |      | 4.5   | 11.2                  |
| NW                      | .1    | 1.0   | 1.0    | 2.0     | .1      |         |         |         |         |         |      | 4.2   | 10.1                  |
| NNW                     |       | .4    | .7     | 1.2     | .1      |         |         |         |         |         |      | 2.4   | 11.1                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.1   |                       |
|                         | 1.8   | 18.3  | 39.2   | 34.8    | 2.7     | .1      |         |         |         |         |      | 100.0 | 9.4                   |

TOTAL NUMBER OF OBSERVATIONS

819

USAFETAC

FORM  
AR 64

D-8-5 (OL-A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .1    | .9    | 2.0    | 1.3     | .1      |         |         |         |         |         |      | 4.4   | 9.3                   |
| NNE                     | .1    | .4    | .8     | .7      | .1      |         |         |         |         |         |      | 2.1   | 10.0                  |
| NE                      | .1    | .7    | .9     | .3      | .0      |         |         |         |         |         |      | 2.0   | 7.8                   |
| ENE                     | .1    | .7    | .5     | .2      | .0      |         |         |         |         |         |      | 1.5   | 7.3                   |
| E                       | .1    | 1.3   | 2.1    | .6      | .1      |         |         |         |         |         |      | 4.1   | 8.0                   |
| ESE                     | .1    | 1.0   | 2.5    | 1.3     | .1      |         |         |         |         |         |      | 5.1   | 8.9                   |
| SE                      | .0    | 1.4   | 3.8    | 2.3     | .1      |         |         |         |         |         |      | 7.6   | 9.3                   |
| SSE                     | .1    | .6    | 2.0    | .9      | .0      |         |         |         |         |         |      | 3.7   | 8.7                   |
| S                       | .3    | 2.3   | 6.3    | 2.1     | .0      |         |         |         |         |         |      | 11.0  | 8.4                   |
| SSW                     | .2    | 1.3   | 3.1    | 2.0     | .0      |         |         |         |         |         |      | 6.6   | 9.1                   |
| SW                      | .1    | 1.8   | 4.8    | 4.9     | .2      | .0      |         |         |         |         |      | 11.9  | 10.1                  |
| WSW                     | .1    | 1.0   | 3.7    | 5.1     | .7      | .1      |         |         |         |         |      | 10.7  | 11.2                  |
| W                       | .1    | 1.4   | 3.8    | 7.2     | 1.1     | .1      | .0      |         |         |         |      | 13.7  | 11.7                  |
| WNW                     | .0    | .6    | 1.9    | 2.4     | .2      | .0      |         |         |         |         |      | 5.2   | 10.7                  |
| NW                      | .1    | .9    | 2.2    | 2.8     | .2      | .0      |         |         |         |         |      | 6.2   | 10.5                  |
| NNW                     | .1    | .5    | .9     | 1.2     | .2      |         |         |         |         |         |      | 2.8   | 10.5                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 1.6   |                       |
|                         | 1.6   | 16.8  | 41.2   | 35.2    | 3.3     | .3      | .0      |         |         |         |      | 100.0 | 9.7                   |

TOTAL NUMBER OF OBSERVATIONS

6576

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

729250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

ALL  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L S Y)

CONDITION

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 53 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 2.0   | 2.9    | 1.6     | .1      | .0      |         |         |         |         |      | 6.8   | 8.5                   |
| NNE                     | .1    | .7    | 1.2    | .5      | .0      |         |         |         |         |         |      | 2.5   | 8.3                   |
| NE                      | .1    | 1.2   | 1.5    | .4      | .0      |         |         |         |         |         |      | 3.4   | 7.6                   |
| ENE                     | .1    | .9    | .9     | .2      | .0      |         |         |         |         |         |      | 2.1   | 7.0                   |
| E                       | .2    | 2.3   | 2.1    | .5      | .0      | .0      |         |         |         |         |      | 5.2   | 7.1                   |
| ESE                     | .2    | 1.3   | 1.8    | .9      | .0      | .0      |         |         |         |         |      | 4.2   | 8.1                   |
| SE                      | .2    | 1.8   | 2.8    | 1.6     | .1      | .0      |         |         |         |         |      | 6.5   | 8.7                   |
| SSE                     | .1    | 1.0   | 1.8    | .7      | .0      | .0      |         |         |         |         |      | 3.6   | 8.2                   |
| S                       | .3    | 3.3   | 5.2    | 1.6     | .0      |         |         |         |         |         |      | 10.4  | 7.8                   |
| SSW                     | .2    | 1.9   | 2.7    | 1.3     | .1      | .0      | .0      |         |         |         |      | 6.2   | 8.2                   |
| SW                      | .3    | 2.4   | 4.3    | 3.2     | .2      | .0      | .0      |         |         |         |      | 10.5  | 9.2                   |
| WSW                     | .2    | 1.4   | 3.0    | 3.1     | .5      | .1      | .0      |         |         |         |      | 8.3   | 10.3                  |
| W                       | .3    | 2.0   | 3.8    | 4.3     | .7      | .1      | .0      |         |         |         |      | 11.2  | 10.4                  |
| WNW                     | .2    | 1.1   | 1.8    | 1.7     | .2      | .0      | .0      |         |         |         |      | 5.0   | 9.6                   |
| NW                      | .2    | 1.4   | 2.4    | 2.3     | .2      | .0      |         |         |         |         |      | 6.6   | 9.6                   |
| NNW                     | .1    | .9    | 1.4    | 1.5     | .2      | .0      |         |         |         |         |      | 4.1   | 9.7                   |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 3.5   |                       |
|                         | 3.0   | 25.8  | 39.6   | 25.4    | 2.4     | .3      | .0      |         |         |         |      | 100.0 | 8.6                   |

TOTAL NUMBER OF OBSERVATIONS

76292

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

724250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

ALL  
MONTH

INSTRUMENT

CLASS

CIG 200 TO 1400 FT W/ VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

ALL  
HOURS (L.S.T.)

| SPEED<br>(KNTS)<br>DIR. | 1 - 3 | 4 - 6 | 7 - 10 | 11 - 16 | 17 - 21 | 22 - 27 | 28 - 33 | 34 - 40 | 41 - 47 | 48 - 55 | ≥ 56 | %     | MEAN<br>WIND<br>SPEED |
|-------------------------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|------|-------|-----------------------|
| N                       | .2    | 1.4   | 2.9    | 2.2     | .2      | .0      |         |         |         |         |      | 7.0   | 9.4                   |
| NNE                     | .1    | .6    | 1.1    | .6      | .1      |         |         |         |         |         |      | 2.5   | 9.0                   |
| NE                      | .1    | .9    | 1.1    | .7      | .1      |         |         |         |         |         |      | 2.8   | 8.7                   |
| ENE                     | .1    | .6    | .7     | .3      | .0      |         |         |         |         |         |      | 1.7   | 7.7                   |
| E                       | .2    | 1.7   | 1.5    | .6      | .1      | .0      |         |         |         |         |      | 4.1   | 7.6                   |
| ESE                     | .2    | 1.0   | 1.3    | 1.0     | .1      | .0      |         |         |         |         |      | 3.6   | 8.7                   |
| SE                      | .1    | 1.5   | 2.1    | 2.1     | .2      | .0      |         |         |         |         |      | 6.0   | 9.4                   |
| SSE                     | .1    | 1.1   | 1.7    | .7      | .0      |         |         |         |         |         |      | 3.7   | 8.2                   |
| S                       | .4    | 3.7   | 5.0    | 1.4     | .0      |         |         |         |         |         |      | 9.8   | 7.7                   |
| SSW                     | .2    | 1.6   | 2.6    | .9      | .0      | .0      |         |         |         |         |      | 5.3   | 8.0                   |
| SW                      | .3    | 2.0   | 4.5    | 2.7     | .2      | .1      | .0      |         |         |         |      | 9.9   | 9.3                   |
| WSW                     | .2    | 1.3   | 3.2    | 3.2     | .5      | .2      | .0      |         |         |         |      | 8.6   | 10.5                  |
| W                       | .2    | 2.0   | 4.5    | 5.5     | .8      | .1      | .0      |         |         |         |      | 13.1  | 10.7                  |
| WNW                     | .1    | 1.2   | 2.4    | 2.6     | .3      | .1      | .0      |         |         |         |      | 6.7   | 10.2                  |
| NW                      | .2    | 1.1   | 2.9    | 3.5     | .2      | .0      |         |         |         |         |      | 8.1   | 10.4                  |
| NNW                     | .1    | .6    | 1.6    | 2.0     | .3      | .0      |         |         |         |         |      | 4.5   | 10.7                  |
| VARBL                   |       |       |        |         |         |         |         |         |         |         |      |       |                       |
| CALM                    |       |       |        |         |         |         |         |         |         |         |      | 2.5   |                       |
|                         | 2.8   | 21.8  | 39.1   | 30.1    | 3.1     | .6      | .1      |         |         |         |      | 100.0 | 9.2                   |

TOTAL NUMBER OF OBSERVATIONS 15760

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

## PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

Beginning in January 1968, METAR stations report visibilities to 6 miles and then greater than 6 miles. Thus, for METAR stations, the category equal to or greater than 10 miles is not printed in the tables, unless the summary was for a period ending before January 1968.

Continued on Reverse Side

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
|-------------------|----------------------------|----------|----------|----------|----------|---------------------|----------|---------------------|---------------------|----------|--------------------|--------------------|--------------------|--------------------|---------------------|----------|
|                   | $\geq 10$                  | $\geq 6$ | $\geq 5$ | $\geq 4$ | $\geq 3$ | $\geq 2\frac{1}{2}$ | $\geq 2$ | $\geq 1\frac{1}{2}$ | $\geq 1\frac{1}{4}$ | $\geq 1$ | $\geq \frac{3}{4}$ | $\geq \frac{1}{2}$ | $\geq \frac{1}{4}$ | $\geq \frac{1}{8}$ | $\geq \frac{1}{16}$ | $\geq 0$ |
| NO CEILING        |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 1800              |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 1500              |                            |          |          |          | 91.0     |                     |          |                     |                     |          |                    |                    |                    |                    |                     | 92.6     |
| 1200              |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 1000              |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 900               |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 800               |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 700               |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 600               |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 500               |                            |          |          |          |          |                     |          |                     |                     | 97.4     |                    |                    |                    |                    |                     | 98.1     |
| 400               |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 300               |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 200               |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 100               |                            |          |          |          |          |                     |          |                     |                     |          |                    |                    |                    |                    |                     |          |
| 0                 |                            |          |          |          | 95.4     |                     | 96.9     |                     |                     | 98.3     |                    |                    |                    |                    |                     | 100.0    |

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

#### ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but < 3 miles; or ceiling  $\geq 500$  feet, but < 1500 feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.



CLIMATE CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION

YOUNGSTOWN MAP OH

73-81

YEARS

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-1999  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |      |       |        |        |       |        |         |        |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|------|-------|--------|--------|-------|--------|---------|--------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1  | ≥ 0.5 | ≥ 0.25 | ≥ 0.15 | ≥ 0.1 | ≥ 0.05 | ≥ 0.025 | ≥ 0.01 |
| NO CEILING      | 12.7                       | 23.3 | 23.9 | 24.1 | 24.2 | 24.2  | 24.5 | 24.5  | 24.5 | 24.7  | 24.7   | 24.7   | 24.7  | 24.7   | 24.7    | 24.7   |
| ≥ 20000         | 12.7                       | 25.7 | 25.5 | 25.8 | 25.9 | 25.9  | 26.2 | 26.2  | 26.2 | 26.4  | 26.4   | 26.4   | 26.4  | 26.4   | 26.4    | 26.4   |
| ≥ 18000         | 12.9                       | 25.0 | 25.5 | 25.8 | 25.9 | 25.9  | 26.2 | 26.2  | 26.2 | 26.4  | 26.4   | 26.4   | 26.4  | 26.4   | 26.4    | 26.4   |
| ≥ 16000         | 12.9                       | 25.0 | 25.5 | 25.8 | 25.9 | 25.9  | 26.2 | 26.2  | 26.2 | 26.4  | 26.4   | 26.4   | 26.4  | 26.4   | 26.4    | 26.4   |
| ≥ 14000         | 12.9                       | 25.0 | 25.5 | 25.8 | 25.9 | 25.9  | 26.2 | 26.2  | 26.2 | 26.4  | 26.4   | 26.4   | 26.4  | 26.4   | 26.4    | 26.4   |
| ≥ 12000         | 13.2                       | 25.3 | 25.8 | 26.3 | 26.4 | 26.4  | 26.7 | 26.7  | 26.7 | 26.9  | 26.9   | 26.9   | 26.9  | 26.9   | 26.9    | 26.9   |
| ≥ 10000         | 13.5                       | 26.6 | 27.2 | 27.8 | 27.9 | 27.9  | 28.1 | 28.1  | 28.1 | 28.4  | 28.4   | 28.4   | 28.4  | 28.4   | 28.4    | 28.4   |
| ≥ 9000          | 13.5                       | 26.7 | 27.3 | 27.9 | 28.0 | 28.0  | 28.3 | 28.3  | 28.3 | 28.5  | 28.5   | 28.5   | 28.5  | 28.5   | 28.5    | 28.5   |
| ≥ 8000          | 14.3                       | 28.4 | 29.0 | 29.6 | 29.7 | 29.7  | 30.0 | 30.0  | 30.0 | 30.2  | 30.2   | 30.2   | 30.2  | 30.2   | 30.2    | 30.2   |
| ≥ 7000          | 14.7                       | 29.6 | 30.3 | 30.9 | 31.1 | 31.1  | 31.3 | 31.3  | 31.3 | 31.5  | 31.5   | 31.5   | 31.5  | 31.5   | 31.5    | 31.5   |
| ≥ 6000          | 14.9                       | 30.1 | 30.9 | 31.5 | 31.7 | 31.7  | 31.9 | 31.9  | 31.9 | 32.2  | 32.2   | 32.2   | 32.2  | 32.2   | 32.2    | 32.2   |
| ≥ 5000          | 15.6                       | 33.0 | 33.9 | 34.5 | 34.6 | 34.6  | 34.8 | 35.0  | 35.0 | 35.2  | 35.2   | 35.2   | 35.2  | 35.2   | 35.2    | 35.2   |
| ≥ 4500          | 17.2                       | 34.3 | 35.2 | 35.9 | 36.1 | 36.1  | 36.3 | 36.4  | 36.4 | 36.7  | 36.7   | 36.7   | 36.7  | 36.7   | 36.7    | 36.7   |
| ≥ 4000          | 18.1                       | 36.2 | 37.4 | 38.5 | 38.6 | 38.6  | 38.9 | 39.0  | 39.0 | 39.2  | 39.2   | 39.2   | 39.2  | 39.2   | 39.2    | 39.2   |
| ≥ 3500          | 19.9                       | 38.2 | 39.9 | 41.0 | 41.2 | 41.2  | 41.5 | 41.7  | 41.7 | 41.9  | 41.9   | 41.9   | 41.9  | 41.9   | 41.9    | 41.9   |
| ≥ 3000          | 21.1                       | 42.5 | 44.7 | 46.2 | 45.4 | 46.4  | 46.8 | 46.9  | 46.9 | 47.1  | 47.1   | 47.1   | 47.1  | 47.1   | 47.1    | 47.1   |
| ≥ 2500          | 22.4                       | 46.3 | 49.6 | 51.3 | 52.0 | 52.3  | 52.6 | 52.7  | 52.7 | 53.0  | 53.0   | 53.0   | 53.0  | 53.0   | 53.0    | 53.0   |
| ≥ 2000          | 25.5                       | 54.3 | 59.5 | 61.3 | 62.5 | 62.9  | 63.2 | 63.3  | 63.3 | 63.6  | 63.6   | 63.6   | 63.6  | 63.6   | 63.6    | 63.6   |
| ≥ 1800          | 25.9                       | 57.0 | 61.1 | 64.1 | 65.3 | 65.7  | 66.0 | 66.1  | 66.1 | 66.5  | 66.5   | 66.5   | 66.5  | 66.5   | 66.5    | 66.5   |
| ≥ 1500          | 26.7                       | 60.7 | 65.7 | 69.2 | 70.9 | 71.3  | 71.7 | 72.0  | 72.0 | 72.4  | 72.4   | 72.4   | 72.4  | 72.4   | 72.4    | 72.4   |
| ≥ 1200          | 28.3                       | 63.6 | 69.7 | 75.4 | 77.3 | 77.8  | 78.4 | 78.8  | 78.8 | 79.3  | 79.3   | 79.3   | 79.3  | 79.3   | 79.3    | 79.3   |
| ≥ 1000          | 28.3                       | 64.6 | 71.3 | 77.3 | 79.4 | 80.4  | 81.9 | 82.7  | 82.7 | 83.6  | 83.6   | 83.6   | 83.6  | 83.6   | 83.6    | 83.6   |
| ≥ 900           | 28.5                       | 65.4 | 72.2 | 78.6 | 80.8 | 81.7  | 83.2 | 84.7  | 84.7 | 85.6  | 85.6   | 85.6   | 85.6  | 85.6   | 85.6    | 85.6   |
| ≥ 800           | 28.6                       | 66.3 | 73.2 | 79.5 | 81.7 | 82.8  | 84.7 | 86.5  | 86.6 | 87.8  | 87.8   | 87.8   | 87.8  | 87.8   | 87.8    | 87.8   |
| ≥ 700           | 28.6                       | 67.6 | 74.5 | 81.2 | 83.4 | 84.7  | 86.7 | 88.8  | 88.9 | 90.1  | 90.1   | 90.1   | 90.1  | 90.1   | 90.1    | 90.1   |
| ≥ 600           | 28.6                       | 67.7 | 74.7 | 81.9 | 84.2 | 85.4  | 87.8 | 90.0  | 90.3 | 92.0  | 92.0   | 92.0   | 92.0  | 92.0   | 92.0    | 92.0   |
| ≥ 500           | 28.6                       | 68.3 | 75.3 | 83.2 | 85.7 | 87.0  | 89.4 | 91.8  | 92.2 | 93.9  | 93.9   | 93.9   | 94.0  | 94.0   | 94.0    | 94.0   |
| ≥ 400           | 28.6                       | 68.6 | 75.5 | 83.4 | 86.4 | 87.9  | 90.6 | 93.1  | 93.4 | 95.2  | 95.5   | 95.5   | 95.7  | 95.7   | 95.7    | 95.7   |
| ≥ 300           | 28.6                       | 68.6 | 75.5 | 83.8 | 87.0 | 88.7  | 91.6 | 94.0  | 94.4 | 96.2  | 96.5   | 96.5   | 96.7  | 96.7   | 96.7    | 96.7   |
| ≥ 200           | 28.6                       | 68.6 | 75.5 | 83.8 | 87.0 | 88.9  | 92.1 | 95.0  | 95.4 | 97.7  | 97.9   | 97.9   | 98.4  | 98.4   | 98.7    | 98.7   |
| ≥ 100           | 28.6                       | 68.6 | 75.5 | 83.8 | 87.0 | 88.9  | 92.1 | 95.1  | 95.5 | 97.9  | 98.5   | 98.7   | 99.3  | 99.4   | 99.8    | 99.8   |
| ≥ 0             | 28.6                       | 68.6 | 75.5 | 83.8 | 87.0 | 88.9  | 92.1 | 95.1  | 95.5 | 97.9  | 98.5   | 98.7   | 99.3  | 99.4   | 99.8    | 100.0  |

TOTAL NUMBER OF OBSERVATIONS 821

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

JOINT CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |      |       |        |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|-------|-------|------|-------|--------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.0 | ≥0.5 | ≥0.25 | ≥0.15 | ≥0.1 | ≥0.05 | ≥0.025 | ≥0    |
| NO CEILING      | 6.7                        | 17.8 | 18.7 | 20.4 | 20.7 | 20.7 | 20.8 | 20.8 | 20.6 | 21.0 | 21.0  | 21.0  | 21.0 | 21.0  | 21.0   | 21.0  |
| ≥ 20000         | 9.1                        | 19.4 | 20.3 | 22.0 | 22.3 | 22.3 | 22.4 | 22.4 | 22.4 | 22.6 | 22.6  | 22.6  | 22.6 | 22.6  | 22.6   | 22.6  |
| ≥ 18000         | 9.1                        | 19.4 | 20.3 | 22.0 | 22.3 | 22.3 | 22.4 | 22.4 | 22.4 | 22.6 | 22.6  | 22.6  | 22.6 | 22.6  | 22.6   | 22.6  |
| ≥ 16000         | 9.1                        | 19.4 | 20.3 | 22.0 | 22.3 | 22.3 | 22.4 | 22.4 | 22.4 | 22.6 | 22.6  | 22.6  | 22.6 | 22.6  | 22.6   | 22.6  |
| ≥ 14000         | 9.1                        | 20.0 | 20.4 | 22.6 | 22.9 | 22.9 | 23.0 | 23.0 | 23.0 | 23.2 | 23.2  | 23.2  | 23.2 | 23.2  | 23.2   | 23.2  |
| ≥ 12000         | 9.5                        | 21.2 | 22.0 | 24.0 | 24.2 | 24.2 | 24.4 | 24.4 | 24.4 | 24.6 | 24.6  | 24.6  | 24.6 | 24.6  | 24.6   | 24.6  |
| ≥ 10000         | 11.0                       | 22.4 | 23.2 | 25.2 | 25.5 | 25.5 | 25.6 | 25.6 | 25.6 | 25.8 | 25.8  | 25.8  | 25.8 | 25.8  | 25.8   | 25.8  |
| ≥ 9000          | 17.0                       | 22.6 | 23.6 | 25.6 | 25.8 | 25.8 | 26.0 | 26.0 | 26.0 | 26.2 | 26.2  | 26.2  | 26.2 | 26.2  | 26.2   | 26.2  |
| ≥ 8000          | 10.7                       | 24.2 | 25.1 | 27.1 | 27.3 | 27.4 | 27.6 | 27.6 | 27.6 | 27.8 | 27.8  | 27.8  | 27.8 | 27.8  | 27.8   | 27.8  |
| ≥ 7000          | 10.9                       | 25.2 | 26.1 | 28.0 | 28.3 | 28.4 | 28.5 | 28.5 | 28.5 | 28.8 | 28.8  | 28.8  | 28.8 | 28.8  | 28.8   | 28.8  |
| ≥ 6000          | 10.9                       | 25.2 | 26.1 | 28.0 | 28.3 | 28.4 | 28.5 | 28.5 | 28.5 | 28.8 | 28.8  | 28.8  | 28.8 | 28.8  | 28.8   | 28.8  |
| ≥ 5000          | 11.9                       | 27.3 | 28.2 | 30.5 | 30.8 | 30.9 | 31.0 | 31.0 | 31.0 | 31.2 | 31.2  | 31.2  | 31.2 | 31.2  | 31.2   | 31.2  |
| ≥ 4500          | 12.4                       | 28.3 | 29.2 | 31.5 | 31.7 | 31.9 | 32.0 | 32.0 | 32.0 | 32.2 | 32.2  | 32.2  | 32.2 | 32.2  | 32.2   | 32.2  |
| ≥ 4000          | 13.2                       | 30.0 | 31.6 | 34.3 | 34.6 | 34.7 | 34.8 | 34.8 | 34.8 | 35.1 | 35.1  | 35.1  | 35.1 | 35.1  | 35.1   | 35.1  |
| ≥ 3500          | 13.5                       | 32.5 | 34.1 | 36.8 | 37.0 | 37.1 | 37.3 | 37.3 | 37.3 | 37.5 | 37.5  | 37.5  | 37.5 | 37.5  | 37.5   | 37.5  |
| ≥ 3000          | 15.4                       | 36.3 | 38.7 | 41.5 | 41.7 | 41.8 | 41.9 | 41.9 | 41.9 | 42.2 | 42.2  | 42.2  | 42.2 | 42.2  | 42.2   | 42.2  |
| ≥ 2500          | 17.8                       | 41.9 | 44.8 | 48.1 | 48.8 | 49.1 | 49.3 | 49.3 | 49.3 | 49.6 | 49.6  | 49.6  | 49.6 | 49.6  | 49.6   | 49.6  |
| ≥ 2000          | 21.3                       | 49.6 | 53.1 | 56.8 | 58.3 | 58.5 | 58.9 | 58.9 | 58.9 | 59.3 | 59.3  | 59.3  | 59.3 | 59.3  | 59.3   | 59.3  |
| ≥ 1800          | 21.8                       | 52.2 | 56.0 | 60.0 | 61.6 | 61.9 | 62.2 | 62.2 | 62.2 | 62.6 | 62.6  | 62.6  | 62.6 | 62.6  | 62.6   | 62.6  |
| ≥ 1500          | 22.4                       | 54.5 | 59.4 | 64.7 | 66.5 | 66.8 | 67.5 | 67.9 | 67.9 | 68.3 | 68.3  | 68.3  | 68.3 | 68.3  | 68.3   | 68.3  |
| ≥ 1200          | 23.1                       | 58.5 | 64.7 | 71.6 | 74.0 | 74.4 | 75.9 | 76.4 | 76.5 | 77.4 | 77.4  | 77.4  | 77.4 | 77.4  | 77.4   | 77.4  |
| ≥ 1000          | 23.1                       | 59.3 | 65.7 | 73.4 | 76.0 | 76.9 | 79.1 | 80.2 | 80.3 | 81.8 | 81.8  | 81.8  | 81.8 | 81.8  | 81.8   | 81.8  |
| ≥ 900           | 23.4                       | 60.3 | 66.9 | 75.4 | 78.0 | 78.8 | 81.1 | 82.3 | 82.4 | 84.0 | 84.0  | 84.0  | 84.0 | 84.0  | 84.0   | 84.0  |
| ≥ 800           | 23.5                       | 61.0 | 67.9 | 76.6 | 79.2 | 80.4 | 83.1 | 84.5 | 84.9 | 86.7 | 86.7  | 86.7  | 86.7 | 86.7  | 86.7   | 86.7  |
| ≥ 700           | 23.6                       | 61.9 | 68.9 | 78.0 | 80.6 | 81.8 | 84.6 | 86.2 | 86.6 | 88.4 | 88.4  | 88.4  | 88.4 | 88.4  | 88.4   | 88.4  |
| ≥ 600           | 23.9                       | 62.7 | 70.4 | 79.8 | 82.4 | 83.6 | 87.0 | 88.7 | 89.1 | 90.9 | 91.0  | 91.0  | 91.0 | 91.0  | 91.0   | 91.0  |
| ≥ 500           | 23.9                       | 63.0 | 70.7 | 81.1 | 83.9 | 85.5 | 88.8 | 90.7 | 91.0 | 93.0 | 93.1  | 93.1  | 93.1 | 93.1  | 93.1   | 93.1  |
| ≥ 400           | 23.9                       | 63.1 | 70.8 | 81.5 | 85.1 | 87.0 | 90.4 | 92.6 | 93.1 | 95.1 | 95.2  | 95.2  | 95.2 | 95.2  | 95.2   | 95.2  |
| ≥ 300           | 23.9                       | 63.1 | 70.8 | 81.8 | 85.6 | 87.5 | 91.0 | 93.2 | 93.7 | 95.8 | 96.4  | 96.4  | 96.4 | 96.4  | 96.4   | 96.4  |
| ≥ 200           | 23.9                       | 63.1 | 70.8 | 81.8 | 86.2 | 88.1 | 91.6 | 94.3 | 95.1 | 97.5 | 98.2  | 98.2  | 98.2 | 98.2  | 98.2   | 98.2  |
| ≥ 100           | 23.9                       | 63.1 | 70.8 | 81.8 | 86.2 | 88.1 | 91.6 | 94.3 | 95.2 | 97.7 | 98.5  | 98.5  | 99.0 | 99.0  | 99.3   | 99.3  |
| ≥ 0             | 23.9                       | 63.1 | 70.8 | 81.8 | 86.2 | 88.1 | 91.6 | 94.3 | 95.2 | 97.7 | 98.5  | 98.5  | 99.0 | 99.0  | 99.6   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 813

AL CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

JAN

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

7600-1800  
LOCAL TIME

| CEILING<br>FEET | VISIBILITY / STATUTE MILES |      |      |      |      |      |      |      |       |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.25 | ≥1   | ≥.75 | ≥.5  | ≥.25 | ≥.16 | ≥.1  | ≥.05  |
| NO CEILING      | 7.3                        | 13.7 | 15.2 | 17.0 | 17.4 | 18.0 | 18.2 | 18.2 | 18.2  | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2  |
| ≥ 20000         | 7.6                        | 15.5 | 17.4 | 19.4 | 19.8 | 20.4 | 20.8 | 20.9 | 20.9  | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9  |
| ≥ 18000         | 7.8                        | 15.7 | 17.5 | 19.5 | 19.9 | 20.5 | 20.9 | 21.0 | 21.0  | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  |
| ≥ 16000         | 7.8                        | 15.7 | 17.5 | 19.5 | 19.9 | 20.5 | 20.9 | 21.0 | 21.0  | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  |
| ≥ 14000         | 7.9                        | 15.9 | 17.7 | 19.8 | 20.1 | 20.8 | 21.1 | 21.2 | 21.2  | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.2  |
| ≥ 12000         | 8.1                        | 16.7 | 18.8 | 20.9 | 21.2 | 21.8 | 22.2 | 22.3 | 22.3  | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3  |
| ≥ 10000         | 8.5                        | 17.5 | 19.5 | 21.8 | 22.2 | 22.8 | 23.2 | 23.3 | 23.3  | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3  |
| ≥ 9000          | 8.7                        | 17.8 | 19.9 | 22.2 | 22.6 | 23.2 | 23.5 | 23.7 | 23.7  | 23.7 | 23.7 | 23.7 | 23.7 | 23.7 | 23.7 | 23.7  |
| ≥ 8000          | 9.2                        | 19.5 | 21.7 | 24.0 | 24.4 | 25.0 | 25.4 | 25.5 | 25.5  | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5  |
| ≥ 7000          | 9.5                        | 20.6 | 22.8 | 25.1 | 25.5 | 26.1 | 26.5 | 26.6 | 26.6  | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6  |
| ≥ 6000          | 9.9                        | 20.9 | 23.2 | 25.5 | 25.8 | 26.5 | 26.8 | 26.9 | 26.9  | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9  |
| ≥ 5000          | 10.3                       | 22.0 | 24.3 | 26.6 | 26.9 | 27.5 | 27.9 | 28.0 | 28.0  | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0  |
| ≥ 4500          | 11.1                       | 23.1 | 25.5 | 27.8 | 28.2 | 28.8 | 29.1 | 29.2 | 29.2  | 29.2 | 29.2 | 29.2 | 29.2 | 29.2 | 29.2 | 29.2  |
| ≥ 4000          | 12.1                       | 25.2 | 27.9 | 30.3 | 30.7 | 31.3 | 31.7 | 31.8 | 31.8  | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8  |
| ≥ 3500          | 12.5                       | 26.2 | 28.9 | 31.3 | 31.7 | 32.3 | 32.6 | 32.8 | 32.8  | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8  |
| ≥ 3000          | 14.0                       | 29.2 | 32.4 | 34.8 | 35.3 | 36.0 | 36.8 | 36.9 | 36.9  | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0  |
| ≥ 2500          | 16.6                       | 35.1 | 38.2 | 41.1 | 42.2 | 43.1 | 44.1 | 44.3 | 44.3  | 44.4 | 44.4 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5  |
| ≥ 2000          | 19.7                       | 42.5 | 45.1 | 49.6 | 51.1 | 52.5 | 53.8 | 54.2 | 54.2  | 54.6 | 54.9 | 54.9 | 55.0 | 55.0 | 55.0 | 55.0  |
| ≥ 1800          | 20.0                       | 44.8 | 48.7 | 52.8 | 54.7 | 56.2 | 57.5 | 58.1 | 58.1  | 58.6 | 58.9 | 58.9 | 59.0 | 59.0 | 59.0 | 59.0  |
| ≥ 1500          | 20.3                       | 46.6 | 51.0 | 56.1 | 58.4 | 59.8 | 61.8 | 62.4 | 62.4  | 63.3 | 63.6 | 63.6 | 63.8 | 63.8 | 63.8 | 63.8  |
| ≥ 1200          | 21.2                       | 51.0 | 57.0 | 63.5 | 66.1 | 67.8 | 70.9 | 71.8 | 71.8  | 73.2 | 73.4 | 73.4 | 73.7 | 73.7 | 73.7 | 73.7  |
| ≥ 1000          | 21.5                       | 52.8 | 59.3 | 65.0 | 68.7 | 71.4 | 74.8 | 76.0 | 76.0  | 77.8 | 78.2 | 78.2 | 78.4 | 78.4 | 78.4 | 78.4  |
| ≥ 900           | 21.8                       | 53.9 | 61.2 | 68.6 | 71.2 | 74.0 | 78.0 | 79.2 | 79.5  | 81.3 | 81.8 | 81.8 | 82.2 | 82.2 | 82.2 | 82.2  |
| ≥ 800           | 22.0                       | 54.9 | 62.4 | 70.3 | 73.1 | 76.0 | 80.3 | 81.6 | 81.8  | 83.9 | 84.6 | 84.6 | 85.0 | 85.0 | 85.0 | 85.0  |
| ≥ 700           | 22.1                       | 55.7 | 63.5 | 71.8 | 74.6 | 77.5 | 82.0 | 83.5 | 83.7  | 85.8 | 86.5 | 86.5 | 86.9 | 86.9 | 86.9 | 86.9  |
| ≥ 600           | 22.1                       | 56.2 | 64.6 | 73.3 | 76.1 | 79.4 | 84.2 | 85.9 | 86.2  | 88.3 | 89.2 | 89.2 | 89.6 | 89.6 | 89.6 | 89.6  |
| ≥ 500           | 22.2                       | 56.9 | 65.8 | 74.9 | 77.9 | 81.4 | 86.4 | 88.2 | 88.5  | 90.8 | 91.9 | 92.0 | 92.5 | 92.5 | 92.5 | 92.5  |
| ≥ 400           | 22.2                       | 57.2 | 66.0 | 75.8 | 79.1 | 82.6 | 88.0 | 89.8 | 90.0  | 92.4 | 93.4 | 93.6 | 94.1 | 94.1 | 94.1 | 94.1  |
| ≥ 300           | 22.2                       | 57.2 | 66.0 | 76.1 | 79.6 | 83.1 | 89.1 | 91.4 | 91.6  | 94.2 | 95.9 | 96.1 | 96.6 | 96.6 | 96.6 | 96.6  |
| ≥ 200           | 22.2                       | 57.2 | 66.0 | 76.3 | 80.0 | 83.5 | 89.4 | 91.9 | 92.2  | 95.1 | 97.2 | 97.5 | 98.3 | 98.4 | 98.5 | 98.5  |
| ≥ 100           | 22.2                       | 57.2 | 66.0 | 76.3 | 80.0 | 83.5 | 89.4 | 91.9 | 92.2  | 95.1 | 97.2 | 97.5 | 98.4 | 98.8 | 99.2 | 99.2  |
| ≥ 0             | 22.2                       | 57.2 | 66.0 | 76.3 | 80.0 | 83.5 | 89.4 | 91.9 | 92.2  | 95.1 | 97.2 | 97.5 | 98.4 | 98.8 | 99.2 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 824

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

UNITED STATES CLIMATOLOGY BRANCH  
ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

900-1100  
HOURS (LST)

| CEILING<br>FEET | VISIBILITY STATUTE MILES: |      |      |      |      |       |      |       |       |      |       |      |       |       |      |       |
|-----------------|---------------------------|------|------|------|------|-------|------|-------|-------|------|-------|------|-------|-------|------|-------|
|                 | ≥ 10                      | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .16 | ≥ .1 | ≥ 0   |
| NO CEILING      | 7.6                       | 12.6 | 14.1 | 15.2 | 16.3 | 16.5  | 17.3 | 17.7  | 17.7  | 17.7 | 17.9  | 17.9 | 17.9  | 17.9  | 17.9 | 17.9  |
| ≥ 20000         | 17.9                      | 16.3 | 13.2 | 19.5 | 20.9 | 21.5  | 22.5 | 23.0  | 23.0  | 23.1 | 23.3  | 23.3 | 23.3  | 23.3  | 23.3 | 23.3  |
| ≥ 18000         | 17.9                      | 16.3 | 19.2 | 19.5 | 20.9 | 21.5  | 22.5 | 23.0  | 23.0  | 23.1 | 23.3  | 23.3 | 23.3  | 23.3  | 23.3 | 23.3  |
| ≥ 16000         | 17.9                      | 16.3 | 18.2 | 19.5 | 20.9 | 21.5  | 22.5 | 23.0  | 23.0  | 23.1 | 23.3  | 23.3 | 23.3  | 23.3  | 23.3 | 23.3  |
| ≥ 14000         | 17.9                      | 16.8 | 19.7 | 20.0 | 21.4 | 22.0  | 23.0 | 23.5  | 23.5  | 23.6 | 23.7  | 23.7 | 23.7  | 23.7  | 23.7 | 23.7  |
| ≥ 12000         | 10.4                      | 17.0 | 19.3 | 20.8 | 22.3 | 22.9  | 23.9 | 24.4  | 24.4  | 24.6 | 24.7  | 24.7 | 24.7  | 24.7  | 24.7 | 24.7  |
| ≥ 10000         | 11.6                      | 18.4 | 20.9 | 23.0 | 24.5 | 25.1  | 26.2 | 26.7  | 26.7  | 26.9 | 27.1  | 27.1 | 27.1  | 27.1  | 27.1 | 27.1  |
| ≥ 9000          | 11.6                      | 18.4 | 20.8 | 23.0 | 24.5 | 25.1  | 26.2 | 26.7  | 26.7  | 26.9 | 27.1  | 27.1 | 27.1  | 27.1  | 27.1 | 27.1  |
| ≥ 8000          | 12.4                      | 19.7 | 22.3 | 24.6 | 26.1 | 26.7  | 27.8 | 28.3  | 28.3  | 28.5 | 28.6  | 28.6 | 28.6  | 28.6  | 28.6 | 28.6  |
| ≥ 7000          | 13.3                      | 20.9 | 23.6 | 25.9 | 27.4 | 28.0  | 29.1 | 29.6  | 29.6  | 29.9 | 30.0  | 30.0 | 30.0  | 30.0  | 30.0 | 30.0  |
| ≥ 6000          | 13.8                      | 21.3 | 24.0 | 26.7 | 28.2 | 28.9  | 30.0 | 30.5  | 30.5  | 30.7 | 30.8  | 30.8 | 30.8  | 30.8  | 30.8 | 30.8  |
| ≥ 5000          | 14.3                      | 22.5 | 25.5 | 28.3 | 29.9 | 30.6  | 31.7 | 32.2  | 32.2  | 32.4 | 32.6  | 32.6 | 32.6  | 32.6  | 32.6 | 32.6  |
| ≥ 4500          | 14.7                      | 23.6 | 26.6 | 29.5 | 31.1 | 31.8  | 32.9 | 33.4  | 33.4  | 33.7 | 33.8  | 33.8 | 33.8  | 33.8  | 33.8 | 33.8  |
| ≥ 4000          | 16.7                      | 25.0 | 28.7 | 31.0 | 32.7 | 33.4  | 34.6 | 35.1  | 35.1  | 35.4 | 35.5  | 35.5 | 35.5  | 35.5  | 35.5 | 35.5  |
| ≥ 3500          | 16.6                      | 25.9 | 28.9 | 31.9 | 33.8 | 34.5  | 35.7 | 36.2  | 36.2  | 36.5 | 36.6  | 36.6 | 36.6  | 36.6  | 36.6 | 36.6  |
| ≥ 3000          | 17.5                      | 27.1 | 30.1 | 33.5 | 36.0 | 36.8  | 38.4 | 38.9  | 38.9  | 39.2 | 39.3  | 39.3 | 39.3  | 39.3  | 39.3 | 39.3  |
| ≥ 2500          | 19.3                      | 30.2 | 33.5 | 37.5 | 40.4 | 41.4  | 43.2 | 43.9  | 43.9  | 44.2 | 44.3  | 44.3 | 44.3  | 44.3  | 44.3 | 44.3  |
| ≥ 2000          | 21.9                      | 34.6 | 38.8 | 43.8 | 46.8 | 48.3  | 50.7 | 51.8  | 51.8  | 52.3 | 52.4  | 52.4 | 52.4  | 52.4  | 52.4 | 52.4  |
| ≥ 1800          | 22.8                      | 36.5 | 40.9 | 46.0 | 49.1 | 50.7  | 53.4 | 54.6  | 54.6  | 55.3 | 55.4  | 55.4 | 55.4  | 55.4  | 55.4 | 55.4  |
| ≥ 1500          | 23.5                      | 40.0 | 45.2 | 50.9 | 54.2 | 56.2  | 60.2 | 62.1  | 62.2  | 63.4 | 63.6  | 63.6 | 63.6  | 63.6  | 63.6 | 63.6  |
| ≥ 1200          | 23.9                      | 42.2 | 47.9 | 54.1 | 57.9 | 60.6  | 65.6 | 68.2  | 68.4  | 70.0 | 70.3  | 70.3 | 70.3  | 70.3  | 70.3 | 70.3  |
| ≥ 1000          | 24.0                      | 43.2 | 49.6 | 56.1 | 60.0 | 62.8  | 68.5 | 71.5  | 71.7  | 74.2 | 74.8  | 74.8 | 74.9  | 74.9  | 74.9 | 74.9  |
| ≥ 900           | 24.0                      | 43.8 | 51.9 | 57.4 | 61.9 | 65.2  | 71.7 | 75.0  | 75.3  | 77.7 | 78.6  | 78.6 | 78.7  | 78.7  | 78.7 | 78.7  |
| ≥ 800           | 24.7                      | 44.3 | 51.9 | 58.6 | 63.2 | 67.0  | 73.8 | 77.5  | 77.7  | 80.7 | 81.8  | 81.8 | 81.9  | 81.9  | 81.9 | 81.9  |
| ≥ 700           | 24.3                      | 44.4 | 52.3 | 59.7 | 64.6 | 68.4  | 75.6 | 79.6  | 79.8  | 82.7 | 84.1  | 84.1 | 84.2  | 84.2  | 84.2 | 84.2  |
| ≥ 600           | 24.0                      | 44.6 | 52.4 | 60.3 | 65.4 | 70.0  | 77.4 | 81.4  | 81.6  | 84.8 | 86.2  | 86.2 | 86.3  | 86.3  | 86.3 | 86.3  |
| ≥ 500           | 24.0                      | 44.6 | 52.8 | 61.0 | 66.2 | 71.2  | 79.4 | 83.7  | 84.0  | 87.6 | 89.6  | 89.6 | 90.0  | 90.0  | 90.0 | 90.0  |
| ≥ 400           | 24.0                      | 44.8 | 53.1 | 61.6 | 67.0 | 72.5  | 80.9 | 85.7  | 86.0  | 90.2 | 93.1  | 93.1 | 93.9  | 93.9  | 94.0 | 94.0  |
| ≥ 300           | 24.0                      | 44.8 | 53.1 | 61.8 | 67.4 | 72.9  | 81.5 | 87.1  | 87.5  | 92.5 | 96.1  | 96.1 | 96.8  | 96.8  | 96.9 | 96.9  |
| ≥ 200           | 24.7                      | 44.9 | 53.2 | 62.1 | 67.7 | 73.2  | 81.9 | 87.8  | 88.1  | 93.3 | 97.4  | 97.4 | 98.7  | 98.7  | 98.9 | 98.9  |
| ≥ 100           | 24.0                      | 44.9 | 53.2 | 62.1 | 67.7 | 73.2  | 81.9 | 87.8  | 88.1  | 93.3 | 97.4  | 97.4 | 98.9  | 98.9  | 99.3 | 99.4  |
| ≥ 0             | 24.0                      | 44.9 | 53.2 | 62.1 | 67.7 | 73.2  | 81.9 | 87.8  | 88.1  | 93.3 | 97.4  | 97.4 | 98.9  | 98.9  | 99.3 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 817

GLOBAL CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

250 YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |       |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥8   | ≥6   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.25 | ≥1   | ≥.75 | ≥.5  | ≥.25 | ≥.16 | ≥.1  | ≥0    |
| NO CEILING      | 11.3                       | 15.8 | 16.7 | 16.8 | 14.8 | 16.9 | 17.2 | 17.2 | 17.2  | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2  |
| ≥ 20000         | 13.9                       | 21.1 | 21.6 | 21.8 | 22.2 | 22.3 | 22.9 | 22.8 | 22.8  | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8 | 22.8  |
| ≥ 18000         | 13.6                       | 20.1 | 21.9 | 22.2 | 22.5 | 22.7 | 23.1 | 23.1 | 23.1  | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1  |
| ≥ 16000         | 13.6                       | 21.1 | 21.9 | 22.2 | 22.5 | 22.7 | 23.1 | 23.1 | 23.1  | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1  |
| ≥ 14000         | 13.9                       | 20.6 | 22.4 | 22.7 | 23.3 | 23.1 | 23.6 | 23.6 | 23.6  | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6 | 23.6  |
| ≥ 12000         | 14.0                       | 21.3 | 23.3 | 23.5 | 23.9 | 24.3 | 24.5 | 24.5 | 24.5  | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5  |
| ≥ 10000         | 14.9                       | 22.2 | 24.5 | 24.7 | 25.1 | 25.2 | 25.7 | 25.7 | 25.7  | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7  |
| ≥ 9000          | 15.0                       | 22.3 | 24.6 | 24.8 | 25.2 | 25.3 | 25.8 | 25.8 | 25.8  | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8  |
| ≥ 8000          | 15.8                       | 23.6 | 25.9 | 26.2 | 26.6 | 26.7 | 27.2 | 27.2 | 27.2  | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2  |
| ≥ 7000          | 16.2                       | 24.7 | 27.5 | 27.8 | 28.1 | 28.3 | 28.7 | 28.7 | 28.7  | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7  |
| ≥ 6000          | 16.3                       | 25.7 | 28.1 | 28.6 | 29.0 | 29.1 | 29.6 | 29.6 | 29.6  | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6 | 29.6  |
| ≥ 5000          | 16.8                       | 26.2 | 29.4 | 29.8 | 30.2 | 30.3 | 30.8 | 30.8 | 30.8  | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8  |
| ≥ 4500          | 17.2                       | 26.7 | 31.0 | 30.8 | 31.2 | 31.3 | 31.8 | 31.8 | 31.8  | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8  |
| ≥ 4000          | 18.4                       | 28.5 | 31.8 | 32.6 | 33.0 | 33.3 | 33.7 | 33.7 | 33.7  | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7  |
| ≥ 3500          | 18.5                       | 29.7 | 32.2 | 33.3 | 33.6 | 33.9 | 34.3 | 34.3 | 34.3  | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3  |
| ≥ 3000          | 20.7                       | 30.6 | 34.1 | 35.2 | 35.9 | 36.4 | 36.9 | 36.9 | 36.9  | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9  |
| ≥ 2500          | 23.1                       | 35.6 | 39.2 | 40.7 | 41.8 | 42.5 | 43.1 | 43.1 | 43.1  | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1  |
| ≥ 2000          | 28.7                       | 44.2 | 49.5 | 50.4 | 51.8 | 52.7 | 54.1 | 54.2 | 54.2  | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2  |
| ≥ 1800          | 30.0                       | 47.3 | 51.9 | 54.1 | 55.7 | 57.0 | 58.8 | 59.1 | 59.1  | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2  |
| ≥ 1500          | 30.9                       | 51.2 | 56.4 | 59.8 | 61.6 | 63.1 | 66.4 | 67.0 | 67.0  | 67.2 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4  |
| ≥ 1200          | 32.0                       | 53.5 | 57.3 | 63.2 | 65.8 | 67.7 | 73.0 | 74.5 | 74.5  | 75.2 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4 | 75.4  |
| ≥ 1000          | 32.2                       | 54.3 | 60.5 | 64.9 | 68.2 | 70.6 | 76.4 | 78.7 | 78.7  | 79.5 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9  |
| ≥ 900           | 32.5                       | 55.2 | 61.9 | 66.5 | 70.0 | 73.6 | 79.8 | 82.6 | 82.6  | 83.7 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3  |
| ≥ 800           | 32.5                       | 55.8 | 62.6 | 67.4 | 71.0 | 74.8 | 81.4 | 84.5 | 84.5  | 85.7 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3 | 87.3  |
| ≥ 700           | 32.6                       | 56.2 | 63.1 | 68.1 | 71.9 | 76.0 | 82.9 | 86.1 | 86.1  | 87.3 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2 | 89.2  |
| ≥ 600           | 32.5                       | 56.2 | 63.2 | 68.2 | 72.0 | 76.6 | 83.6 | 87.0 | 87.0  | 88.4 | 90.6 | 90.6 | 91.0 | 91.0 | 91.1 | 91.1  |
| ≥ 500           | 32.6                       | 56.6 | 63.7 | 68.7 | 72.6 | 77.5 | 85.1 | 89.0 | 89.0  | 90.5 | 92.9 | 92.9 | 93.3 | 93.3 | 93.4 | 93.4  |
| ≥ 400           | 32.5                       | 56.6 | 63.8 | 68.9 | 72.8 | 77.8 | 85.9 | 90.1 | 90.1  | 92.4 | 95.4 | 95.4 | 96.0 | 96.0 | 96.1 | 96.1  |
| ≥ 300           | 32.5                       | 56.8 | 63.9 | 69.1 | 73.0 | 78.3 | 86.6 | 91.0 | 91.0  | 93.9 | 97.0 | 97.0 | 97.7 | 97.8 | 97.9 | 97.9  |
| ≥ 200           | 32.6                       | 56.8 | 63.9 | 69.1 | 73.1 | 78.4 | 87.0 | 91.4 | 91.4  | 94.6 | 97.8 | 97.8 | 98.8 | 98.9 | 99.0 | 99.0  |
| ≥ 100           | 32.6                       | 56.8 | 63.9 | 69.1 | 73.1 | 78.4 | 87.0 | 91.4 | 91.4  | 94.8 | 97.9 | 97.9 | 99.0 | 99.1 | 99.5 | 99.5  |
| ≥ 0             | 32.6                       | 56.8 | 63.9 | 69.1 | 73.1 | 78.4 | 87.0 | 91.4 | 91.4  | 94.8 | 97.9 | 97.9 | 99.3 | 99.4 | 99.8 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 821

ALBANY CLIMATOLOGY BRANCH  
ETAC  
ALBANY WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

7-2-  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JAN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1522-1700  
HOURS LST

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥0    |
| NO CEILING      | 13.5                       | 17.2 | 17.2 | 17.2 | 17.2 | 17.2 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3  |
| ≥ 20000         | 18.7                       | 23.4 | 23.7 | 23.7 | 23.8 | 23.8 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9  |
| ≥ 18000         | 18.2                       | 23.6 | 23.8 | 23.8 | 23.9 | 23.9 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0  |
| ≥ 16000         | 18.2                       | 23.6 | 23.8 | 23.8 | 23.9 | 23.9 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0  |
| ≥ 14000         | 18.7                       | 24.2 | 24.4 | 24.4 | 24.5 | 24.5 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7  |
| ≥ 12000         | 19.9                       | 25.8 | 26.7 | 26.0 | 26.1 | 26.1 | 26.3 | 26.3 | 26.3 | 26.3 | 26.3 | 26.3 | 26.3 | 26.3 | 26.3 | 26.3  |
| ≥ 10000         | 22.7                       | 27.1 | 27.5 | 27.5 | 27.6 | 27.6 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7  |
| ≥ 9000          | 23.5                       | 27.6 | 28.0 | 28.0 | 28.1 | 28.1 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2  |
| ≥ 8000          | 22.1                       | 30.1 | 30.6 | 30.6 | 30.7 | 30.7 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8  |
| ≥ 7000          | 22.3                       | 30.9 | 31.4 | 31.4 | 31.5 | 31.5 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8  |
| ≥ 6000          | 22.3                       | 31.2 | 31.8 | 31.8 | 31.9 | 31.9 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1  |
| ≥ 5000          | 23.2                       | 32.9 | 33.5 | 33.5 | 33.7 | 33.9 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1  |
| ≥ 4500          | 23.7                       | 34.1 | 34.7 | 34.8 | 35.1 | 35.2 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5  |
| ≥ 4000          | 24.7                       | 35.8 | 36.4 | 36.6 | 36.8 | 36.9 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2  |
| ≥ 3500          | 25.4                       | 36.7 | 37.7 | 37.9 | 38.2 | 38.3 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5  |
| ≥ 3000          | 29.7                       | 40.9 | 42.0 | 42.7 | 43.1 | 43.2 | 43.4 | 43.4 | 43.4 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6  |
| ≥ 2500          | 34.2                       | 47.4 | 48.5 | 49.3 | 50.1 | 50.7 | 51.4 | 51.4 | 51.4 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5 | 51.5  |
| ≥ 2000          | 37.5                       | 54.4 | 56.1 | 57.7 | 59.0 | 59.9 | 61.0 | 61.3 | 61.3 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7  |
| ≥ 1800          | 39.3                       | 57.5 | 60.2 | 62.2 | 63.8 | 64.7 | 65.9 | 66.5 | 66.5 | 67.1 | 67.1 | 67.1 | 67.1 | 67.1 | 67.1 | 67.1  |
| ≥ 1500          | 40.9                       | 60.4 | 63.4 | 66.1 | 67.7 | 69.2 | 71.3 | 72.5 | 72.5 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1 | 73.1  |
| ≥ 1200          | 41.5                       | 63.1 | 66.5 | 69.6 | 71.9 | 74.1 | 77.7 | 79.9 | 79.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9  |
| ≥ 1000          | 41.8                       | 63.9 | 67.7 | 71.0 | 73.5 | 76.1 | 80.5 | 83.3 | 83.3 | 84.8 | 85.2 | 85.2 | 85.3 | 85.3 | 85.3 | 85.3  |
| ≥ 900           | 41.8                       | 64.5 | 68.6 | 72.0 | 74.7 | 77.5 | 82.0 | 85.6 | 85.6 | 87.2 | 87.6 | 87.6 | 87.7 | 87.7 | 87.7 | 87.7  |
| ≥ 800           | 42.0                       | 64.8 | 69.0 | 72.4 | 75.5 | 78.5 | 83.2 | 87.4 | 87.4 | 89.4 | 90.1 | 90.1 | 90.3 | 90.3 | 90.3 | 90.3  |
| ≥ 700           | 42.7                       | 64.9 | 69.2 | 72.8 | 75.8 | 79.4 | 84.3 | 88.7 | 88.7 | 90.9 | 91.9 | 91.9 | 92.1 | 92.1 | 92.1 | 92.1  |
| ≥ 600           | 42.0                       | 64.9 | 69.3 | 72.9 | 76.0 | 80.0 | 85.2 | 89.8 | 89.8 | 92.1 | 93.3 | 93.3 | 93.6 | 93.6 | 93.6 | 93.6  |
| ≥ 500           | 42.7                       | 65.2 | 69.6 | 73.3 | 76.3 | 80.4 | 85.8 | 90.9 | 90.9 | 93.9 | 95.1 | 95.1 | 95.5 | 95.5 | 95.5 | 95.5  |
| ≥ 400           | 42.0                       | 65.2 | 69.6 | 73.3 | 76.6 | 80.9 | 86.5 | 92.1 | 92.1 | 95.3 | 96.8 | 96.8 | 97.2 | 97.2 | 97.2 | 97.2  |
| ≥ 300           | 42.7                       | 65.2 | 69.6 | 73.3 | 76.6 | 81.1 | 86.9 | 92.8 | 92.8 | 96.6 | 98.3 | 98.3 | 98.8 | 98.8 | 98.8 | 98.8  |
| ≥ 200           | 42.0                       | 65.2 | 69.6 | 73.3 | 76.6 | 81.1 | 86.9 | 92.8 | 92.8 | 96.8 | 98.7 | 98.7 | 99.1 | 99.3 | 99.5 | 99.5  |
| ≥ 100           | 42.0                       | 65.2 | 69.6 | 73.3 | 76.6 | 81.1 | 86.9 | 92.8 | 92.8 | 96.8 | 98.8 | 98.8 | 99.5 | 99.6 | 99.9 | 100.0 |
| ≥ 0             | 42.0                       | 65.2 | 69.6 | 73.3 | 76.6 | 81.1 | 86.9 | 92.8 | 92.8 | 96.8 | 98.8 | 98.8 | 99.5 | 99.6 | 99.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 815

U.S. AIR FORCE  
CLIMATE BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

JAN

1800-2000  
HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>(FEET) | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |        |      |       |      |       |       |      |      |
|-------------------|----------------------------|------|------|------|------|-------|------|-------|--------|------|-------|------|-------|-------|------|------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.25 | ≥ 1  | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .16 | ≥ .1 | ≥ 0  |
| NO CEILING        | 18.2                       | 21.9 | 22.0 | 22.1 | 22.1 | 22.2  | 22.2 | 22.2  | 22.2   | 22.2 | 22.2  | 22.2 | 22.2  | 22.2  | 22.2 | 22.2 |
| ≥ 20000           | 21.9                       | 26.4 | 26.5 | 26.6 | 26.6 | 26.7  | 26.7 | 26.7  | 26.7   | 26.7 | 26.7  | 26.7 | 26.7  | 26.7  | 26.7 | 26.7 |
| IV 18000          | 21.9                       | 26.4 | 26.5 | 26.6 | 26.6 | 26.7  | 26.7 | 26.7  | 26.7   | 26.7 | 26.7  | 26.7 | 26.7  | 26.7  | 26.7 | 26.7 |
| IV 16000          | 21.9                       | 26.4 | 26.5 | 26.6 | 26.6 | 26.7  | 26.7 | 26.7  | 26.7   | 26.7 | 26.7  | 26.7 | 26.7  | 26.7  | 26.7 | 26.7 |
| IV 14000          | 21.3                       | 26.6 | 26.7 | 26.9 | 26.9 | 27.0  | 27.0 | 27.0  | 27.0   | 27.0 | 27.0  | 27.0 | 27.0  | 27.0  | 27.0 | 27.0 |
| IV 12000          | 21.5                       | 27.1 | 27.2 | 27.3 | 27.3 | 27.5  | 27.5 | 27.5  | 27.5   | 27.5 | 27.5  | 27.5 | 27.5  | 27.5  | 27.5 | 27.5 |
| IV 10000          | 22.7                       | 28.7 | 28.9 | 29.0 | 29.0 | 29.2  | 29.2 | 29.2  | 29.2   | 29.2 | 29.2  | 29.2 | 29.2  | 29.2  | 29.2 | 29.2 |
| IV 9000           | 22.7                       | 28.7 | 28.9 | 29.0 | 29.0 | 29.2  | 29.2 | 29.2  | 29.2   | 29.2 | 29.2  | 29.2 | 29.2  | 29.2  | 29.2 | 29.2 |
| IV 8000           | 23.5                       | 30.7 | 31.1 | 31.2 | 31.2 | 31.3  | 31.3 | 31.3  | 31.3   | 31.3 | 31.3  | 31.3 | 31.3  | 31.3  | 31.3 | 31.3 |
| IV 7000           | 23.8                       | 31.2 | 32.3 | 32.4 | 32.4 | 32.6  | 32.6 | 32.6  | 32.6   | 32.6 | 32.6  | 32.6 | 32.6  | 32.6  | 32.6 | 32.6 |
| IV 6000           | 23.9                       | 32.2 | 32.7 | 32.8 | 33.0 | 33.2  | 33.2 | 33.2  | 33.2   | 33.2 | 33.2  | 33.2 | 33.2  | 33.2  | 33.2 | 33.2 |
| IV 5000           | 25.0                       | 35.1 | 35.6 | 35.7 | 36.1 | 36.2  | 36.2 | 36.2  | 36.2   | 36.2 | 36.2  | 36.2 | 36.2  | 36.2  | 36.2 | 36.2 |
| IV 4500           | 26.6                       | 36.2 | 36.7 | 36.8 | 37.2 | 37.3  | 37.3 | 37.3  | 37.3   | 37.3 | 37.3  | 37.3 | 37.3  | 37.3  | 37.3 | 37.3 |
| IV 4000           | 27.9                       | 39.2 | 40.2 | 40.1 | 40.5 | 40.6  | 40.6 | 40.6  | 40.6   | 40.6 | 40.6  | 40.6 | 40.6  | 40.6  | 40.6 | 40.6 |
| IV 3500           | 28.5                       | 41.8 | 41.8 | 42.0 | 42.5 | 42.6  | 42.6 | 42.6  | 42.6   | 42.6 | 42.6  | 42.6 | 42.6  | 42.6  | 42.6 | 42.6 |
| IV 3000           | 31.7                       | 46.1 | 47.6 | 48.5 | 49.1 | 49.2  | 49.2 | 49.2  | 49.2   | 49.2 | 49.2  | 49.2 | 49.2  | 49.2  | 49.2 | 49.2 |
| IV 2500           | 36.2                       | 52.6 | 54.4 | 55.5 | 56.7 | 57.2  | 57.2 | 57.2  | 57.2   | 57.2 | 57.2  | 57.2 | 57.2  | 57.2  | 57.2 | 57.2 |
| IV 2000           | 39.0                       | 53.3 | 61.1 | 63.2 | 64.5 | 65.0  | 65.4 | 65.7  | 65.7   | 65.7 | 65.7  | 65.7 | 65.7  | 65.7  | 65.7 | 65.7 |
| IV 1800           | 40.0                       | 61.1 | 64.2 | 66.2 | 68.3 | 68.9  | 69.4 | 70.0  | 70.0   | 70.1 | 70.1  | 70.1 | 70.1  | 70.1  | 70.1 | 70.1 |
| IV 1500           | 41.1                       | 64.8 | 68.9 | 71.7 | 74.0 | 75.1  | 76.7 | 77.3  | 77.3   | 77.5 | 77.5  | 77.5 | 77.5  | 77.5  | 77.5 | 77.5 |
| IV 1200           | 41.2                       | 67.4 | 72.3 | 75.9 | 78.7 | 80.0  | 82.3 | 83.1  | 83.1   | 83.7 | 83.7  | 83.7 | 83.7  | 83.7  | 83.7 | 83.7 |
| IV 1000           | 41.3                       | 67.9 | 72.8 | 76.8 | 80.0 | 81.3  | 84.2 | 85.8  | 85.8   | 86.8 | 86.8  | 86.8 | 86.8  | 86.8  | 86.8 | 86.8 |
| IV 900            | 41.2                       | 68.4 | 73.4 | 77.8 | 80.9 | 82.4  | 85.5 | 87.1  | 87.1   | 88.5 | 88.5  | 88.5 | 88.5  | 88.5  | 88.5 | 88.5 |
| IV 800            | 41.9                       | 68.7 | 73.6 | 78.9 | 82.0 | 83.5  | 86.9 | 88.7  | 88.7   | 90.0 | 90.0  | 90.0 | 90.0  | 90.0  | 90.0 | 90.0 |
| IV 700            | 41.9                       | 69.1 | 74.4 | 80.1 | 83.4 | 84.8  | 88.7 | 90.6  | 90.6   | 92.2 | 92.2  | 92.2 | 92.2  | 92.2  | 92.2 | 92.2 |
| IV 600            | 41.9                       | 69.4 | 74.6 | 80.6 | 84.0 | 85.4  | 89.4 | 91.6  | 91.6   | 93.2 | 93.3  | 93.3 | 93.3  | 93.3  | 93.3 | 93.3 |
| IV 500            | 41.9                       | 69.4 | 75.1 | 81.3 | 84.9 | 86.4  | 90.6 | 93.1  | 93.1   | 95.1 | 95.7  | 95.7 | 95.7  | 95.7  | 95.7 | 95.7 |
| IV 400            | 41.9                       | 69.5 | 75.1 | 81.4 | 85.4 | 86.9  | 91.4 | 93.9  | 93.9   | 96.2 | 96.8  | 96.8 | 96.8  | 96.8  | 96.8 | 96.8 |
| IV 300            | 41.9                       | 69.5 | 75.1 | 81.4 | 85.4 | 87.0  | 92.0 | 94.7  | 94.7   | 97.2 | 97.9  | 97.9 | 97.9  | 97.9  | 97.9 | 97.9 |
| IV 200            | 41.9                       | 69.6 | 75.2 | 81.7 | 85.7 | 87.2  | 92.2 | 95.1  | 95.1   | 98.1 | 98.8  | 98.8 | 98.8  | 98.9  | 99.3 | 99.3 |
| IV 100            | 41.9                       | 69.6 | 75.2 | 81.7 | 85.7 | 87.2  | 92.2 | 95.1  | 95.1   | 98.3 | 99.0  | 99.0 | 99.0  | 99.1  | 99.3 | 99.3 |
| IV 0              | 41.9                       | 69.6 | 75.2 | 81.7 | 85.7 | 87.2  | 92.2 | 95.1  | 95.1   | 98.3 | 99.0  | 99.0 | 99.0  | 99.1  | 99.3 | 99.3 |

TOTAL NUMBER OF OBSERVATIONS 827

1. CLIMATOLOGY BRANCH  
2. ETAC  
3. WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

JAN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |      |       |        |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|-------|------|-------|--------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥0.5 | ≥0.25 | ≥0.15 | ≥0.1 | ≥0.05 | ≥0.025 | ≥0.01 |
| NO CEILING      | 15.7                     | 22.1 | 22.2 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4  | 22.4  | 22.4 | 22.4  | 22.4   | 22.4  |
| ≥ 20000         | 15.5                     | 25.6 | 25.9 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0  | 26.0  | 26.0 | 26.0  | 26.0   | 26.0  |
| IV 18000        | 16.5                     | 25.6 | 25.9 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0  | 26.0  | 26.0 | 26.0  | 26.0   | 26.0  |
| IV 16000        | 16.5                     | 25.6 | 25.9 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0  | 26.0  | 26.0 | 26.0  | 26.0   | 26.0  |
| IV 14000        | 16.5                     | 25.6 | 25.9 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0  | 26.0  | 26.0 | 26.0  | 26.0   | 26.0  |
| IV 12000        | 17.0                     | 26.5 | 26.7 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9  | 26.9  | 26.9 | 26.9  | 26.9   | 26.9  |
| IV 10000        | 18.3                     | 28.6 | 29.2 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3  | 29.3  | 29.3 | 29.3  | 29.3   | 29.3  |
| IV 9000         | 18.5                     | 28.7 | 29.3 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4  | 29.4  | 29.4 | 29.4  | 29.4   | 29.4  |
| IV 8000         | 19.2                     | 30.9 | 31.5 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6  | 31.6  | 31.6 | 31.6  | 31.6   | 31.6  |
| IV 7000         | 20.2                     | 32.8 | 33.5 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7  | 33.7  | 33.7 | 33.7  | 33.7   | 33.7  |
| IV 6000         | 20.3                     | 33.0 | 33.8 | 33.9 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0  | 34.0  | 34.0 | 34.0  | 34.0   | 34.0  |
| IV 5000         | 21.1                     | 36.1 | 36.6 | 37.1 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3  | 37.3  | 37.3 | 37.3  | 37.3   | 37.3  |
| IV 4500         | 21.5                     | 36.8 | 37.9 | 38.3 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5  | 38.5  | 38.5 | 38.5  | 38.5   | 38.5  |
| IV 4000         | 21.9                     | 38.0 | 39.4 | 40.0 | 40.2 | 40.2 | 40.2 | 40.2 | 40.2 | 40.2 | 40.2  | 40.2  | 40.2 | 40.2  | 40.2   | 40.2  |
| IV 3500         | 22.5                     | 40.2 | 41.8 | 42.4 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8  | 42.8  | 42.8 | 42.8  | 42.8   | 42.8  |
| IV 3000         | 25.2                     | 45.1 | 46.9 | 48.1 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6 | 48.6  | 48.6  | 48.6 | 48.6  | 48.6   | 48.6  |
| IV 2500         | 27.0                     | 51.2 | 53.0 | 55.9 | 57.1 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2 | 57.2  | 57.2  | 57.2 | 57.2  | 57.2   | 57.2  |
| IV 2000         | 31.3                     | 57.4 | 61.5 | 64.0 | 65.4 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6 | 65.6  | 65.6  | 65.6 | 65.6  | 65.6   | 65.6  |
| IV 1800         | 32.2                     | 59.8 | 64.4 | 67.6 | 68.9 | 69.1 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3  | 69.3  | 69.3 | 69.3  | 69.3   | 69.3  |
| IV 1500         | 33.7                     | 64.3 | 69.9 | 73.8 | 75.1 | 75.8 | 76.4 | 76.4 | 76.4 | 76.4 | 76.4  | 76.4  | 76.4 | 76.4  | 76.4   | 76.4  |
| IV 1200         | 34.8                     | 66.5 | 72.4 | 78.4 | 79.8 | 80.8 | 81.8 | 81.8 | 81.8 | 82.1 | 82.1  | 82.1  | 82.1 | 82.1  | 82.1   | 82.1  |
| IV 1000         | 35.2                     | 67.9 | 74.2 | 80.8 | 82.4 | 83.7 | 85.2 | 85.4 | 85.4 | 85.8 | 85.8  | 85.8  | 85.8 | 85.8  | 85.8   | 85.8  |
| IV 900          | 35.2                     | 68.7 | 75.2 | 81.9 | 83.5 | 84.8 | 86.3 | 86.8 | 86.8 | 87.2 | 87.2  | 87.2  | 87.2 | 87.2  | 87.2   | 87.2  |
| IV 800          | 35.2                     | 69.1 | 75.8 | 82.6 | 84.2 | 85.7 | 87.7 | 88.2 | 88.2 | 88.8 | 88.8  | 88.8  | 88.8 | 88.8  | 88.8   | 88.8  |
| IV 700          | 35.2                     | 69.7 | 76.4 | 83.4 | 85.1 | 86.5 | 88.7 | 89.3 | 89.3 | 89.9 | 90.0  | 90.0  | 90.0 | 90.0  | 90.0   | 90.0  |
| IV 600          | 35.2                     | 70.1 | 77.0 | 84.6 | 86.4 | 88.3 | 90.6 | 91.3 | 91.3 | 92.0 | 92.2  | 92.2  | 92.2 | 92.2  | 92.2   | 92.2  |
| IV 500          | 35.2                     | 70.1 | 77.4 | 85.8 | 88.0 | 90.0 | 92.6 | 93.7 | 93.8 | 94.7 | 95.0  | 95.0  | 95.0 | 95.0  | 95.0   | 95.0  |
| IV 400          | 35.2                     | 70.1 | 77.5 | 86.1 | 88.5 | 90.6 | 93.3 | 94.7 | 94.8 | 96.1 | 96.5  | 96.5  | 96.7 | 96.7  | 96.7   | 96.7  |
| IV 300          | 35.2                     | 70.2 | 77.6 | 86.4 | 88.7 | 91.1 | 94.4 | 96.0 | 96.1 | 97.4 | 97.8  | 97.8  | 98.1 | 98.1  | 98.1   | 98.1  |
| IV 200          | 35.2                     | 70.2 | 77.6 | 86.4 | 89.1 | 91.7 | 95.1 | 96.8 | 97.0 | 98.3 | 98.7  | 98.7  | 98.9 | 98.9  | 98.9   | 98.9  |
| IV 100          | 35.2                     | 70.2 | 77.6 | 86.4 | 89.1 | 91.7 | 95.1 | 96.8 | 97.0 | 98.4 | 98.8  | 98.8  | 99.6 | 99.6  | 99.9   | 100.0 |
| IV 0            | 35.2                     | 70.2 | 77.6 | 86.4 | 89.1 | 91.7 | 95.1 | 96.8 | 97.0 | 98.4 | 98.8  | 98.8  | 99.6 | 99.6  | 99.9   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 823



CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION

YOUNGSTOWN MAP OH

73-81

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1-24

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |       |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.25 | ≥1   | ≥.75 | ≥.5  | ≥.25 | ≥.16 | ≥.1  | ≥0    |
| NO CEILING      | 11.7                       | 13.0 | 14.7 | 19.4 | 19.6 | 19.7 | 20.0 | 20.0 | 20.0  | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1  |
| ≥ 20000         | 13.5                       | 21.5 | 22.4 | 23.1 | 23.4 | 23.6 | 23.9 | 24.0 | 24.0  | 24.1 | 24.1 | 24.1 | 24.1 | 24.1 | 24.1 | 24.1  |
| ≥ 18000         | 13.5                       | 21.5 | 22.4 | 23.2 | 23.5 | 23.7 | 24.0 | 24.1 | 24.1  | 24.1 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2  |
| ≥ 16000         | 13.5                       | 21.5 | 22.4 | 23.2 | 23.5 | 23.7 | 24.0 | 24.1 | 24.1  | 24.1 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2  |
| ≥ 14000         | 13.5                       | 21.5 | 22.4 | 23.5 | 23.9 | 24.0 | 24.3 | 24.4 | 24.4  | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5  |
| ≥ 12000         | 14.2                       | 22.6 | 23.7 | 24.5 | 24.8 | 25.0 | 25.3 | 25.3 | 25.3  | 25.4 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5 | 25.5  |
| ≥ 10000         | 15.7                       | 23.9 | 25.1 | 26.0 | 26.4 | 26.6 | 26.9 | 26.9 | 26.9  | 27.0 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1 | 27.1  |
| ≥ 9000          | 15.1                       | 24.1 | 25.3 | 26.2 | 26.6 | 26.8 | 27.1 | 27.1 | 27.1  | 27.2 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3 | 27.3  |
| ≥ 8000          | 15.7                       | 25.9 | 27.1 | 28.1 | 28.4 | 28.6 | 28.9 | 29.0 | 29.0  | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1  |
| ≥ 7000          | 16.4                       | 27.1 | 28.5 | 29.4 | 29.8 | 30.0 | 30.3 | 30.3 | 30.3  | 30.4 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5  |
| ≥ 6000          | 16.5                       | 27.4 | 28.8 | 29.9 | 30.2 | 30.5 | 30.8 | 30.9 | 30.9  | 30.9 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0  |
| ≥ 5000          | 17.5                       | 29.4 | 30.9 | 32.0 | 32.4 | 32.7 | 33.0 | 33.1 | 33.1  | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2  |
| ≥ 4500          | 18.1                       | 30.4 | 32.0 | 33.2 | 33.6 | 33.9 | 34.2 | 34.3 | 34.3  | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4  |
| ≥ 4000          | 19.0                       | 32.3 | 34.1 | 35.4 | 35.9 | 36.1 | 36.5 | 36.6 | 36.6  | 36.6 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7  |
| ≥ 3500          | 19.7                       | 33.7 | 35.6 | 37.1 | 37.6 | 37.8 | 38.2 | 38.3 | 38.3  | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 | 38.4  |
| ≥ 3000          | 21.7                       | 37.2 | 39.6 | 41.3 | 42.0 | 42.3 | 42.8 | 42.9 | 42.9  | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0  |
| ≥ 2500          | 24.7                       | 42.6 | 45.2 | 47.4 | 48.7 | 49.2 | 49.8 | 49.9 | 49.9  | 50.0 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1  |
| ≥ 2000          | 28.1                       | 49.4 | 53.0 | 55.9 | 57.4 | 58.2 | 59.1 | 59.4 | 59.4  | 59.6 | 59.7 | 59.7 | 59.7 | 59.7 | 59.7 | 59.7  |
| ≥ 1800          | 29.1                       | 52.0 | 55.9 | 59.1 | 60.9 | 61.8 | 62.8 | 63.2 | 63.2  | 63.6 | 63.6 | 63.6 | 63.7 | 63.7 | 63.7 | 63.7  |
| ≥ 1500          | 29.9                       | 55.3 | 60.0 | 64.0 | 66.1 | 67.2 | 69.0 | 69.7 | 69.7  | 70.2 | 70.3 | 70.3 | 70.3 | 70.3 | 70.3 | 70.3  |
| ≥ 1200          | 30.9                       | 58.2 | 63.7 | 69.0 | 71.5 | 72.9 | 75.7 | 76.8 | 76.9  | 77.7 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8  |
| ≥ 1000          | 31.0                       | 59.2 | 65.2 | 70.8 | 73.5 | 75.4 | 78.8 | 80.4 | 80.5  | 81.8 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0  |
| ≥ 900           | 31.2                       | 60.0 | 66.3 | 72.3 | 75.1 | 77.3 | 81.0 | 82.9 | 83.0  | 84.4 | 84.7 | 84.7 | 84.8 | 84.8 | 84.8 | 84.8  |
| ≥ 800           | 31.2                       | 60.6 | 67.1 | 73.3 | 76.2 | 78.6 | 82.6 | 84.9 | 85.0  | 86.6 | 87.1 | 87.1 | 87.2 | 87.2 | 87.2 | 87.2  |
| ≥ 700           | 31.3                       | 61.2 | 67.8 | 74.4 | 77.4 | 79.9 | 84.2 | 86.6 | 86.7  | 88.4 | 89.1 | 89.1 | 89.2 | 89.2 | 89.2 | 89.2  |
| ≥ 600           | 31.3                       | 61.5 | 68.3 | 75.2 | 78.3 | 81.1 | 85.6 | 88.2 | 88.3  | 90.2 | 91.0 | 91.0 | 91.1 | 91.1 | 91.1 | 91.1  |
| ≥ 500           | 31.3                       | 61.8 | 68.8 | 76.1 | 79.5 | 82.4 | 87.3 | 90.1 | 90.3  | 92.4 | 93.4 | 93.4 | 93.6 | 93.6 | 93.7 | 93.7  |
| ≥ 400           | 31.3                       | 61.9 | 68.9 | 76.5 | 80.1 | 83.3 | 88.4 | 91.5 | 91.7  | 94.1 | 95.3 | 95.4 | 95.7 | 95.7 | 95.7 | 95.7  |
| ≥ 300           | 31.3                       | 61.9 | 69.0 | 76.7 | 80.4 | 83.7 | 89.1 | 92.5 | 92.7  | 95.5 | 97.0 | 97.0 | 97.4 | 97.4 | 97.4 | 97.4  |
| ≥ 200           | 31.3                       | 61.9 | 69.0 | 76.8 | 80.7 | 84.0 | 89.5 | 91.1 | 93.4  | 96.4 | 98.1 | 98.1 | 98.7 | 98.7 | 98.9 | 98.9  |
| ≥ 100           | 31.7                       | 61.9 | 69.0 | 76.8 | 80.7 | 84.0 | 89.5 | 93.2 | 93.4  | 96.5 | 98.3 | 98.3 | 99.1 | 99.2 | 99.5 | 99.6  |
| ≥ 0             | 31.3                       | 61.9 | 69.0 | 76.6 | 80.7 | 84.0 | 89.5 | 93.2 | 93.4  | 96.5 | 98.3 | 98.3 | 99.1 | 99.3 | 99.6 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 6557

AL CLIMATOLOGY BRANCH  
AFCTAC  
WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

FFR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-2300  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥0    |
| NO CEILING      | 22.5                     | 30.2 | 31.5 | 31.5 | 31.5 | 31.5 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6  |
| ≥ 20000         | 23.5                     | 32.5 | 33.4 | 33.9 | 33.9 | 33.9 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0  |
| IV 18000        | 23.5                     | 32.6 | 33.4 | 33.9 | 33.9 | 33.9 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0  |
| IV 16000        | 23.5                     | 32.6 | 33.4 | 33.9 | 33.9 | 33.9 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0  |
| IV 14000        | 23.5                     | 32.6 | 33.4 | 33.9 | 33.9 | 33.9 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0  |
| IV 12000        | 24.5                     | 33.4 | 34.2 | 34.7 | 34.7 | 34.7 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8  |
| IV 10000        | 27.1                     | 36.7 | 37.5 | 38.1 | 38.1 | 38.1 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2  |
| IV 9000         | 27.1                     | 37.2 | 38.1 | 38.6 | 38.6 | 38.6 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7  |
| IV 8000         | 27.5                     | 37.9 | 38.7 | 39.3 | 39.3 | 39.3 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4  |
| IV 7000         | 28.3                     | 39.1 | 39.9 | 40.5 | 40.5 | 40.5 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6  |
| IV 6000         | 29.7                     | 39.9 | 40.7 | 41.3 | 41.3 | 41.3 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5  |
| IV 5000         | 31.7                     | 43.1 | 43.9 | 44.5 | 44.5 | 44.5 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9  |
| IV 4500         | 33.7                     | 45.4 | 46.2 | 46.7 | 46.7 | 46.7 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1  |
| IV 4000         | 35.7                     | 48.5 | 49.3 | 50.2 | 50.2 | 50.2 | 50.9 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0  |
| IV 3500         | 35.6                     | 50.1 | 51.0 | 52.1 | 52.2 | 52.2 | 52.7 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9  |
| IV 3000         | 37.4                     | 53.7 | 55.0 | 56.6 | 57.1 | 57.1 | 57.7 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.8  |
| IV 2500         | 39.8                     | 58.7 | 60.3 | 62.8 | 63.3 | 63.3 | 64.5 | 64.6 | 64.6 | 64.6 | 64.6 | 64.6 | 64.6 | 64.6 | 64.6 | 64.6  |
| IV 2000         | 42.9                     | 65.2 | 67.4 | 70.0 | 70.9 | 71.6 | 72.4 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6  |
| IV 1800         | 43.7                     | 67.6 | 70.2 | 73.0 | 74.0 | 74.6 | 75.4 | 75.7 | 75.7 | 75.7 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8 | 75.8  |
| IV 1500         | 44.2                     | 69.4 | 72.5 | 75.7 | 76.6 | 77.3 | 78.8 | 79.0 | 79.0 | 79.0 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2 | 79.2  |
| IV 1200         | 45.3                     | 72.1 | 75.4 | 79.7 | 80.9 | 82.0 | 84.4 | 84.6 | 84.6 | 84.6 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9 | 84.9  |
| IV 1000         | 45.4                     | 72.6 | 76.1 | 80.4 | 81.8 | 82.9 | 85.7 | 86.1 | 86.1 | 86.1 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6  |
| IV 900          | 45.4                     | 73.0 | 76.6 | 81.0 | 82.6 | 83.7 | 86.6 | 87.2 | 87.2 | 87.2 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7 | 87.7  |
| IV 800          | 45.4                     | 73.4 | 77.0 | 81.6 | 83.2 | 84.4 | 87.6 | 88.1 | 88.1 | 88.1 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7 | 88.7  |
| IV 700          | 45.4                     | 74.0 | 77.7 | 82.4 | 84.0 | 85.2 | 88.4 | 88.9 | 88.9 | 88.9 | 89.5 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6  |
| IV 600          | 45.5                     | 74.2 | 78.0 | 82.6 | 84.4 | 85.6 | 88.8 | 89.3 | 89.3 | 89.3 | 89.9 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1  |
| IV 500          | 45.5                     | 74.9 | 78.9 | 83.6 | 85.4 | 86.6 | 89.9 | 90.4 | 90.4 | 90.4 | 91.3 | 91.7 | 91.7 | 91.7 | 91.7 | 91.7  |
| IV 400          | 45.5                     | 75.0 | 79.6 | 84.6 | 86.9 | 88.1 | 91.6 | 92.3 | 92.3 | 92.3 | 93.3 | 93.9 | 93.9 | 93.9 | 94.1 | 94.1  |
| IV 300          | 45.5                     | 75.3 | 80.1 | 85.2 | 87.7 | 88.9 | 92.5 | 93.2 | 93.3 | 94.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.7 | 95.7  |
| IV 200          | 45.5                     | 75.3 | 80.1 | 85.2 | 87.9 | 89.2 | 92.9 | 93.9 | 94.1 | 95.3 | 96.4 | 96.4 | 96.5 | 96.5 | 96.8 | 96.8  |
| IV 100          | 45.5                     | 75.3 | 80.1 | 85.2 | 87.9 | 89.2 | 92.9 | 93.9 | 94.1 | 95.9 | 97.5 | 97.5 | 98.0 | 98.0 | 98.4 | 98.5  |
| IV 0            | 45.5                     | 75.3 | 80.1 | 85.2 | 87.9 | 89.2 | 92.9 | 93.9 | 94.1 | 95.9 | 97.5 | 97.5 | 98.0 | 98.0 | 99.1 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 740

WEATHER CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-31

YEARS

FFF

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

120-2500  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |      |       |        |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|-------|------|-------|--------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥0.5 | ≥0.25 | ≥0.15 | ≥0.1 | ≥0.05 | ≥0.025 | ≥0.01 |
| NO CEILING      | 17.6                     | 24.9 | 26.4 | 16.9 | 27.3 | 27.4 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8  | 27.8  | 27.8 | 28.7  | 28.7   | 26.7  |
| ≥20000          | 19.6                     | 27.3 | 28.8 | 29.3 | 29.7 | 29.9 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3  | 30.3  | 30.3 | 30.4  | 30.4   | 30.4  |
| ≥18000          | 19.6                     | 27.3 | 28.8 | 29.3 | 29.7 | 29.9 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3  | 30.3  | 30.3 | 30.4  | 30.4   | 30.4  |
| ≥16000          | 19.6                     | 27.3 | 28.8 | 29.3 | 29.7 | 29.9 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3  | 30.3  | 30.3 | 30.4  | 30.4   | 30.4  |
| ≥14000          | 19.6                     | 27.3 | 28.8 | 29.3 | 29.7 | 29.9 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3  | 30.3  | 30.3 | 30.4  | 30.4   | 30.4  |
| ≥12000          | 20.7                     | 29.1 | 30.5 | 31.1 | 31.5 | 31.6 | 32.0 | 32.0 | 32.0 | 32.0 | 32.0  | 32.0  | 32.0 | 32.2  | 32.2   | 32.2  |
| ≥10000          | 22.7                     | 31.6 | 33.2 | 33.9 | 34.3 | 34.5 | 34.9 | 34.9 | 34.9 | 34.9 | 34.9  | 34.9  | 34.9 | 35.0  | 35.0   | 35.0  |
| ≥9000           | 22.7                     | 32.0 | 33.6 | 34.3 | 34.7 | 34.9 | 35.3 | 35.3 | 35.3 | 35.3 | 35.3  | 35.3  | 35.3 | 35.4  | 35.4   | 35.4  |
| ≥8000           | 22.3                     | 33.0 | 34.6 | 35.5 | 35.9 | 36.1 | 36.5 | 36.5 | 36.5 | 36.5 | 36.5  | 36.5  | 36.5 | 36.6  | 36.6   | 36.6  |
| ≥7000           | 23.9                     | 34.3 | 35.2 | 36.9 | 37.3 | 37.4 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8  | 37.8  | 37.8 | 38.0  | 38.0   | 38.0  |
| ≥6000           | 24.1                     | 34.6 | 36.2 | 37.2 | 37.6 | 37.7 | 38.1 | 38.1 | 38.1 | 38.1 | 38.1  | 38.1  | 38.1 | 38.2  | 38.2   | 38.2  |
| ≥5000           | 25.2                     | 38.8 | 40.5 | 41.5 | 42.0 | 42.2 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6  | 42.6  | 42.6 | 42.7  | 42.7   | 42.7  |
| IV 4500         | 27.4                     | 40.3 | 42.6 | 43.5 | 44.1 | 44.2 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6  | 44.6  | 44.6 | 44.7  | 44.7   | 44.7  |
| IV 4000         | 28.9                     | 43.5 | 45.3 | 46.5 | 47.0 | 47.2 | 47.6 | 47.7 | 47.7 | 47.7 | 47.7  | 47.7  | 47.7 | 47.8  | 47.8   | 47.8  |
| IV 3500         | 30.3                     | 45.3 | 47.7 | 48.4 | 48.9 | 49.1 | 49.5 | 49.6 | 49.6 | 49.6 | 49.6  | 49.6  | 49.6 | 49.7  | 49.7   | 49.7  |
| IV 3000         | 32.7                     | 50.1 | 52.4 | 54.2 | 54.7 | 54.9 | 55.3 | 55.7 | 55.7 | 55.7 | 55.7  | 55.7  | 55.7 | 55.8  | 55.8   | 55.8  |
| IV 2500         | 33.5                     | 52.6 | 55.4 | 58.0 | 58.6 | 59.3 | 59.9 | 60.3 | 60.3 | 60.3 | 60.3  | 60.3  | 60.3 | 60.4  | 60.4   | 60.4  |
| IV 2000         | 35.9                     | 58.2 | 61.5 | 64.7 | 65.5 | 66.4 | 67.6 | 68.1 | 68.1 | 68.1 | 68.1  | 68.1  | 68.1 | 68.2  | 68.2   | 68.2  |
| IV 1800         | 36.5                     | 60.0 | 63.5 | 67.2 | 68.0 | 68.9 | 70.1 | 70.7 | 70.7 | 70.7 | 70.7  | 70.7  | 70.7 | 70.8  | 70.8   | 70.8  |
| IV 1500         | 38.1                     | 63.1 | 67.2 | 71.5 | 72.3 | 73.5 | 75.1 | 75.7 | 75.7 | 75.7 | 75.7  | 75.7  | 75.7 | 75.8  | 75.8   | 75.8  |
| IV 1200         | 39.5                     | 66.4 | 70.7 | 75.9 | 76.8 | 78.1 | 80.3 | 80.8 | 80.8 | 80.9 | 80.9  | 80.9  | 80.9 | 81.1  | 81.1   | 81.1  |
| IV 1000         | 39.7                     | 68.1 | 72.8 | 78.8 | 79.9 | 81.2 | 83.4 | 84.2 | 84.3 | 84.5 | 84.5  | 84.5  | 84.5 | 84.6  | 84.6   | 84.6  |
| IV 900          | 39.9                     | 69.2 | 74.3 | 80.9 | 82.0 | 83.4 | 85.5 | 86.4 | 86.6 | 86.8 | 86.8  | 86.8  | 86.8 | 86.9  | 86.9   | 86.9  |
| IV 800          | 40.7                     | 69.6 | 74.7 | 81.4 | 82.4 | 83.8 | 85.9 | 86.8 | 87.0 | 87.4 | 87.4  | 87.4  | 87.4 | 87.6  | 87.6   | 87.6  |
| IV 700          | 40.7                     | 70.4 | 75.5 | 82.2 | 83.2 | 84.6 | 86.8 | 88.0 | 88.4 | 88.9 | 88.9  | 88.9  | 88.9 | 89.1  | 89.1   | 89.1  |
| IV 600          | 40.0                     | 70.9 | 76.1 | 82.8 | 84.1 | 85.4 | 87.6 | 88.8 | 89.2 | 89.7 | 89.7  | 89.7  | 89.7 | 89.9  | 89.9   | 89.9  |
| IV 500          | 40.0                     | 71.5 | 77.0 | 83.8 | 85.0 | 86.4 | 89.1 | 90.7 | 91.1 | 91.8 | 91.8  | 91.8  | 91.8 | 91.9  | 91.9   | 91.9  |
| IV 400          | 40.0                     | 71.8 | 77.3 | 84.3 | 85.8 | 87.3 | 90.1 | 91.9 | 92.3 | 93.4 | 93.4  | 93.4  | 93.4 | 93.5  | 93.5   | 93.5  |
| IV 300          | 40.0                     | 71.9 | 77.4 | 84.6 | 86.4 | 87.8 | 91.2 | 93.1 | 93.5 | 95.1 | 95.1  | 95.1  | 95.1 | 95.3  | 95.3   | 95.3  |
| IV 200          | 40.0                     | 71.9 | 77.4 | 84.6 | 86.4 | 87.8 | 91.5 | 93.4 | 93.9 | 95.9 | 96.1  | 96.1  | 96.1 | 96.2  | 96.2   | 96.2  |
| IV 100          | 40.0                     | 71.9 | 77.4 | 84.6 | 86.4 | 87.8 | 91.5 | 93.5 | 94.1 | 96.4 | 96.6  | 96.6  | 96.6 | 96.9  | 97.0   | 97.4  |
| IV 0            | 40.0                     | 71.9 | 77.4 | 84.6 | 86.4 | 87.8 | 91.5 | 93.5 | 94.1 | 96.4 | 96.6  | 96.6  | 96.6 | 96.9  | 97.0   | 97.4  |

TOTAL NUMBER OF OBSERVATIONS 742

JOINT CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 700UNSTON MAB OH  
STATION NAME

73-81  
YEARS

FEB  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

627-0600  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |      |       |        |        |       |        |         |        |
|-----------------|--------------------------|------|------|------|------|-------|------|-------|------|-------|--------|--------|-------|--------|---------|--------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1  | ≥ 0.5 | ≥ 0.25 | ≥ 0.15 | ≥ 0.1 | ≥ 0.05 | ≥ 0.025 | ≥ 0.01 |
| NO CEILING      | 12.4                     | 14.4 | 12.4 | 11.3 | 21.4 | 21.5  | 22.5 | 22.5  | 22.5 | 23.0  | 23.0   | 23.0   | 23.3  | 23.3   | 23.3    | 23.3   |
| ≥ 20000         | 15.2                     | 21.1 | 23.1 | 24.4 | 24.5 | 24.6  | 25.6 | 25.6  | 25.6 | 26.1  | 26.1   | 26.1   | 26.4  | 26.4   | 26.4    | 26.5   |
| ≥ 18000         | 15.3                     | 21.3 | 23.1 | 24.5 | 24.6 | 24.3  | 25.7 | 25.7  | 25.7 | 26.2  | 26.2   | 26.2   | 26.5  | 26.5   | 26.5    | 26.6   |
| ≥ 16000         | 15.3                     | 21.3 | 23.1 | 24.5 | 24.6 | 24.8  | 25.7 | 25.7  | 25.7 | 26.2  | 26.2   | 26.2   | 26.5  | 26.5   | 26.5    | 26.6   |
| ≥ 14000         | 15.4                     | 21.4 | 23.3 | 24.6 | 24.8 | 24.9  | 25.8 | 25.8  | 25.8 | 26.4  | 26.4   | 26.4   | 26.6  | 26.6   | 26.6    | 26.8   |
| ≥ 12000         | 15.7                     | 22.2 | 24.2 | 25.6 | 25.7 | 25.8  | 26.8 | 26.8  | 26.8 | 27.3  | 27.3   | 27.3   | 27.6  | 27.6   | 27.6    | 27.7   |
| ≥ 10000         | 17.8                     | 24.5 | 26.6 | 28.0 | 28.1 | 28.4  | 29.3 | 29.3  | 29.3 | 29.9  | 29.9   | 29.9   | 30.1  | 30.1   | 30.1    | 30.3   |
| ≥ 9000          | 17.8                     | 24.8 | 26.9 | 28.3 | 28.4 | 28.7  | 29.6 | 29.6  | 29.6 | 30.1  | 30.1   | 30.1   | 30.4  | 30.4   | 30.4    | 30.6   |
| ≥ 8000          | 18.3                     | 25.4 | 27.6 | 28.9 | 29.1 | 29.5  | 30.4 | 30.4  | 30.4 | 31.0  | 31.0   | 31.0   | 31.2  | 31.2   | 31.2    | 31.4   |
| ≥ 7000          | 19.0                     | 27.1 | 29.3 | 30.7 | 30.8 | 31.2  | 32.2 | 32.2  | 32.2 | 32.7  | 32.7   | 32.7   | 33.0  | 33.0   | 33.0    | 33.1   |
| ≥ 6000          | 19.2                     | 27.5 | 29.7 | 31.1 | 31.2 | 31.6  | 32.6 | 32.6  | 32.6 | 33.1  | 33.1   | 33.1   | 33.4  | 33.4   | 33.4    | 33.5   |
| ≥ 5000          | 21.1                     | 30.4 | 32.7 | 34.2 | 34.3 | 34.7  | 35.7 | 35.7  | 35.7 | 36.2  | 36.2   | 36.2   | 36.5  | 36.5   | 36.5    | 36.6   |
| ≥ 4500          | 22.5                     | 32.8 | 35.1 | 36.6 | 36.7 | 37.1  | 38.1 | 38.1  | 38.1 | 38.6  | 38.6   | 38.6   | 38.9  | 38.9   | 38.9    | 39.0   |
| ≥ 4000          | 24.5                     | 35.9 | 38.5 | 40.2 | 40.8 | 41.3  | 42.4 | 42.4  | 42.4 | 42.9  | 42.9   | 42.9   | 43.2  | 43.2   | 43.2    | 43.3   |
| ≥ 3500          | 25.7                     | 37.7 | 40.5 | 42.3 | 42.8 | 43.3  | 44.4 | 44.4  | 44.4 | 45.0  | 45.0   | 45.0   | 45.2  | 45.2   | 45.2    | 45.4   |
| ≥ 3000          | 28.7                     | 42.3 | 45.4 | 47.2 | 47.9 | 48.7  | 49.9 | 50.1  | 50.1 | 50.6  | 50.6   | 50.6   | 50.9  | 50.9   | 50.9    | 51.0   |
| ≥ 2500          | 31.1                     | 46.9 | 50.5 | 53.3 | 54.2 | 55.2  | 56.5 | 56.7  | 56.7 | 57.2  | 57.2   | 57.2   | 57.5  | 57.5   | 57.5    | 57.6   |
| ≥ 2000          | 33.7                     | 50.7 | 55.0 | 58.1 | 59.4 | 60.7  | 62.0 | 62.7  | 62.7 | 63.7  | 63.7   | 63.7   | 63.9  | 63.9   | 63.9    | 64.1   |
| ≥ 1800          | 33.8                     | 52.4 | 56.7 | 60.0 | 61.2 | 62.6  | 64.1 | 64.7  | 64.7 | 65.7  | 65.7   | 65.7   | 65.9  | 65.9   | 65.9    | 66.1   |
| ≥ 1500          | 35.3                     | 56.0 | 61.0 | 64.2 | 65.4 | 66.9  | 68.9 | 69.7  | 69.7 | 70.8  | 70.8   | 70.8   | 71.1  | 71.1   | 71.1    | 71.2   |
| ≥ 1200          | 36.7                     | 59.1 | 64.6 | 68.4 | 70.1 | 71.6  | 74.2 | 75.1  | 75.2 | 76.3  | 76.3   | 76.3   | 76.6  | 76.6   | 76.6    | 76.7   |
| ≥ 1000          | 36.7                     | 61.3 | 66.5 | 71.5 | 73.5 | 75.2  | 78.2 | 79.4  | 79.5 | 81.0  | 81.0   | 81.0   | 81.3  | 81.3   | 81.3    | 81.4   |
| ≥ 900           | 36.7                     | 61.6 | 67.3 | 72.5 | 74.7 | 76.7  | 79.7 | 80.9  | 80.9 | 82.6  | 82.6   | 82.6   | 82.9  | 82.9   | 82.9    | 83.0   |
| ≥ 800           | 36.7                     | 61.8 | 67.3 | 72.8 | 75.1 | 77.1  | 80.7 | 82.4  | 82.5 | 84.3  | 84.3   | 84.3   | 84.5  | 84.5   | 84.5    | 84.7   |
| ≥ 700           | 36.7                     | 61.8 | 68.4 | 73.9 | 76.2 | 78.6  | 82.0 | 84.4  | 84.5 | 86.3  | 86.3   | 86.3   | 86.5  | 86.5   | 86.5    | 86.7   |
| ≥ 600           | 36.7                     | 62.0 | 68.8 | 74.6 | 77.1 | 79.7  | 83.2 | 85.7  | 85.9 | 87.8  | 87.8   | 87.8   | 88.0  | 88.0   | 88.0    | 88.2   |
| ≥ 500           | 36.7                     | 62.2 | 69.0 | 74.8 | 77.4 | 80.1  | 83.7 | 86.4  | 86.5 | 88.6  | 88.6   | 88.6   | 89.1  | 89.1   | 89.1    | 89.2   |
| ≥ 400           | 36.7                     | 62.6 | 69.7 | 75.8 | 76.9 | 81.7  | 85.3 | 88.3  | 88.4 | 90.6  | 90.6   | 90.6   | 91.4  | 91.4   | 91.4    | 91.5   |
| ≥ 300           | 36.9                     | 62.7 | 69.9 | 76.3 | 79.5 | 82.4  | 86.3 | 89.2  | 89.4 | 91.7  | 91.9   | 91.9   | 92.5  | 92.5   | 92.5    | 92.7   |
| ≥ 200           | 36.9                     | 62.7 | 69.9 | 76.3 | 79.7 | 82.5  | 86.8 | 90.2  | 90.3 | 93.3  | 93.7   | 93.7   | 94.3  | 94.3   | 94.5    | 95.2   |
| ≥ 100           | 36.9                     | 62.7 | 69.9 | 76.3 | 79.7 | 82.5  | 86.8 | 90.4  | 90.6 | 93.7  | 94.5   | 94.5   | 95.8  | 95.8   | 96.9    | 98.3   |
| ≥ 0             | 36.9                     | 62.7 | 69.9 | 76.3 | 79.7 | 82.5  | 86.8 | 90.4  | 90.6 | 93.7  | 94.5   | 94.5   | 95.8  | 95.8   | 97.2    | 100.0  |

TOTAL NUMBER OF OBSERVATIONS 743

CLIMATE CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/NAAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

FEF

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

9900-1100  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |       |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.25 | ≥1   | ≥.75 | ≥.5  | ≥.25 | ≥.16 | ≥.1  | ≥0    |
| NO CEILING      | 11.3                       | 18.7 | 21.0 | 23.1 | 23.9 | 25.2 | 27.0 | 27.5 | 27.5  | 27.8 | 27.8 | 27.8 | 28.1 | 28.1 | 28.2 | 28.2  |
| ≥ 20000         | 15.5                       | 23.5 | 26.2 | 26.5 | 29.3 | 30.7 | 32.4 | 33.0 | 33.0  | 33.2 | 33.2 | 33.2 | 33.5 | 33.5 | 33.6 | 33.6  |
| ≥ 18000         | 15.5                       | 23.5 | 26.2 | 26.5 | 29.3 | 30.7 | 32.4 | 33.0 | 33.0  | 33.2 | 33.2 | 33.2 | 33.5 | 33.5 | 33.6 | 33.6  |
| ≥ 16000         | 15.5                       | 23.5 | 26.2 | 26.5 | 29.3 | 30.7 | 32.4 | 33.0 | 33.0  | 33.2 | 33.2 | 33.2 | 33.5 | 33.5 | 33.6 | 33.6  |
| ≥ 14000         | 15.5                       | 23.5 | 26.2 | 26.5 | 29.3 | 30.7 | 32.4 | 33.0 | 33.0  | 33.2 | 33.2 | 33.2 | 33.5 | 33.5 | 33.6 | 33.6  |
| ≥ 12000         | 16.7                       | 25.1 | 28.0 | 30.4 | 31.2 | 32.7 | 34.5 | 35.0 | 35.0  | 35.3 | 35.3 | 35.3 | 35.5 | 35.5 | 35.7 | 35.7  |
| ≥ 10000         | 17.7                       | 26.7 | 29.8 | 32.0 | 32.8 | 34.3 | 36.1 | 36.6 | 36.6  | 36.9 | 36.9 | 36.9 | 37.2 | 37.2 | 37.3 | 37.3  |
| ≥ 9000          | 18.6                       | 27.7 | 30.5 | 33.0 | 33.8 | 35.3 | 37.0 | 37.6 | 37.6  | 37.9 | 37.9 | 37.9 | 38.1 | 38.1 | 38.3 | 38.3  |
| ≥ 8000          | 19.7                       | 29.2 | 32.2 | 34.7 | 35.7 | 37.2 | 38.9 | 39.5 | 39.5  | 39.8 | 39.8 | 39.8 | 40.0 | 40.0 | 40.2 | 40.2  |
| ≥ 7000          | 20.8                       | 30.5 | 33.6 | 36.2 | 37.2 | 38.7 | 40.4 | 41.0 | 41.0  | 41.2 | 41.2 | 41.2 | 41.5 | 41.5 | 41.7 | 41.7  |
| ≥ 6000          | 21.9                       | 31.8 | 34.9 | 37.5 | 38.4 | 40.3 | 42.1 | 42.6 | 42.6  | 42.9 | 42.9 | 42.9 | 43.1 | 43.1 | 43.3 | 43.3  |
| ≥ 5000          | 21.7                       | 32.2 | 35.3 | 37.9 | 38.8 | 40.3 | 42.1 | 42.6 | 42.6  | 42.9 | 42.9 | 42.9 | 43.1 | 43.1 | 43.3 | 43.3  |
| ≥ 4500          | 22.5                       | 33.5 | 36.6 | 39.2 | 40.3 | 41.8 | 43.6 | 44.1 | 44.1  | 44.4 | 44.4 | 44.4 | 44.6 | 44.6 | 44.8 | 44.8  |
| ≥ 4000          | 23.6                       | 35.5 | 39.8 | 41.4 | 42.5 | 44.1 | 45.9 | 46.4 | 46.4  | 46.7 | 46.7 | 46.7 | 46.9 | 46.9 | 47.1 | 47.1  |
| ≥ 3500          | 24.3                       | 36.5 | 39.9 | 42.5 | 43.6 | 45.3 | 47.1 | 47.6 | 47.6  | 47.9 | 47.9 | 47.9 | 48.2 | 48.2 | 48.3 | 48.3  |
| ≥ 3000          | 25.2                       | 38.3 | 42.6 | 45.3 | 46.5 | 48.6 | 50.3 | 50.9 | 50.9  | 51.3 | 51.3 | 51.3 | 51.6 | 51.6 | 51.7 | 51.7  |
| ≥ 2500          | 28.6                       | 42.3 | 46.4 | 49.1 | 50.5 | 52.6 | 54.4 | 55.0 | 55.0  | 55.4 | 55.4 | 55.4 | 55.6 | 55.6 | 55.8 | 55.8  |
| ≥ 2000          | 31.2                       | 46.5 | 51.6 | 55.4 | 57.0 | 59.4 | 61.6 | 62.8 | 62.8  | 63.2 | 63.2 | 63.2 | 63.5 | 63.5 | 63.6 | 63.6  |
| ≥ 1800          | 32.2                       | 48.3 | 53.5 | 57.5 | 59.4 | 62.0 | 64.3 | 65.7 | 65.7  | 66.1 | 66.1 | 66.1 | 66.4 | 66.4 | 66.5 | 66.5  |
| ≥ 1500          | 33.6                       | 51.0 | 57.1 | 61.7 | 64.3 | 67.0 | 70.0 | 72.2 | 72.2  | 73.0 | 73.0 | 73.0 | 73.3 | 73.3 | 73.4 | 73.4  |
| ≥ 1200          | 34.1                       | 53.1 | 60.1 | 65.1 | 68.0 | 71.6 | 76.4 | 79.5 | 79.5  | 80.6 | 80.6 | 80.6 | 80.9 | 80.9 | 81.0 | 81.0  |
| ≥ 1000          | 34.5                       | 54.0 | 61.3 | 67.0 | 70.0 | 73.9 | 79.2 | 83.7 | 83.7  | 85.1 | 85.2 | 85.2 | 85.5 | 85.5 | 85.6 | 85.6  |
| ≥ 900           | 34.5                       | 54.5 | 62.0 | 68.2 | 71.4 | 75.8 | 81.3 | 85.8 | 85.8  | 87.2 | 87.4 | 87.4 | 87.8 | 87.8 | 87.9 | 87.9  |
| ≥ 800           | 34.9                       | 54.8 | 62.4 | 68.9 | 72.0 | 76.7 | 82.6 | 87.7 | 87.8  | 89.3 | 89.4 | 89.4 | 89.8 | 89.8 | 90.0 | 90.0  |
| ≥ 700           | 34.9                       | 55.0 | 62.6 | 69.3 | 72.7 | 77.7 | 83.9 | 89.3 | 89.4  | 90.9 | 91.5 | 91.5 | 91.9 | 91.9 | 92.0 | 92.0  |
| ≥ 600           | 34.9                       | 55.0 | 62.6 | 69.3 | 72.7 | 78.0 | 84.4 | 90.4 | 90.5  | 92.4 | 93.1 | 93.1 | 93.5 | 93.5 | 93.6 | 93.6  |
| ≥ 500           | 34.9                       | 55.1 | 62.7 | 69.5 | 72.9 | 78.3 | 84.8 | 90.9 | 91.0  | 92.9 | 93.6 | 93.6 | 94.0 | 94.0 | 94.2 | 94.2  |
| ≥ 400           | 34.9                       | 55.1 | 62.7 | 69.5 | 72.9 | 78.3 | 85.1 | 91.3 | 91.5  | 93.9 | 94.6 | 94.6 | 95.0 | 95.0 | 95.1 | 95.1  |
| ≥ 300           | 34.9                       | 55.1 | 62.7 | 69.5 | 72.9 | 78.4 | 85.2 | 91.6 | 91.7  | 94.4 | 95.4 | 95.4 | 95.8 | 95.8 | 95.9 | 95.9  |
| ≥ 200           | 34.9                       | 55.1 | 62.7 | 69.5 | 72.9 | 78.4 | 85.2 | 91.7 | 91.9  | 94.8 | 96.1 | 96.1 | 96.6 | 96.6 | 96.9 | 97.0  |
| ≥ 100           | 34.9                       | 55.1 | 62.7 | 69.5 | 72.9 | 78.4 | 85.2 | 91.7 | 91.9  | 95.0 | 96.3 | 96.6 | 97.6 | 97.6 | 98.5 | 99.7  |
| ≥ 0             | 34.9                       | 55.1 | 62.7 | 69.5 | 72.9 | 78.4 | 85.2 | 91.7 | 91.9  | 95.0 | 96.3 | 96.6 | 97.6 | 97.6 | 98.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 737

CLIMATE BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS EST

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |       |      |      |      |      |       |      |       |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|------|------|------|-------|------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .4 | ≥ .3 | ≥ .2 | ≥ .16 | ≥ .1 | ≥ 0   |
| NO CEILING      | 15.4                       | 21.6 | 23.1 | 23.7 | 24.0 | 24.3  | 24.3 | 24.3  | 24.3  | 24.3 | 24.3 | 24.3 | 24.3 | 24.3  | 24.3 | 24.3  |
| ≥ 20000         | 23.2                       | 28.3 | 30.3 | 31.1 | 31.5 | 32.0  | 32.2 | 32.2  | 32.2  | 32.2 | 32.2 | 32.2 | 32.2 | 32.2  | 32.2 | 32.2  |
| ≥ 18000         | 27.2                       | 28.3 | 30.3 | 31.1 | 31.5 | 32.0  | 32.2 | 32.2  | 32.2  | 32.2 | 32.2 | 32.2 | 32.2 | 32.2  | 32.2 | 32.2  |
| ≥ 16000         | 27.2                       | 28.3 | 30.3 | 31.1 | 31.5 | 32.0  | 32.2 | 32.2  | 32.2  | 32.2 | 32.2 | 32.2 | 32.2 | 32.2  | 32.2 | 32.2  |
| ≥ 14000         | 20.2                       | 26.3 | 30.3 | 31.1 | 31.5 | 32.0  | 32.2 | 32.2  | 32.2  | 32.2 | 32.2 | 32.2 | 32.2 | 32.2  | 32.2 | 32.2  |
| ≥ 12000         | 21.7                       | 30.0 | 32.2 | 33.0 | 33.4 | 33.9  | 34.0 | 34.0  | 34.0  | 34.0 | 34.0 | 34.0 | 34.0 | 34.0  | 34.0 | 34.0  |
| ≥ 10000         | 23.1                       | 32.0 | 34.3 | 35.1 | 35.5 | 36.1  | 36.2 | 36.2  | 36.2  | 36.2 | 36.2 | 36.2 | 36.2 | 36.2  | 36.2 | 36.2  |
| ≥ 9000          | 23.3                       | 32.3 | 34.6 | 35.4 | 35.8 | 36.3  | 36.5 | 36.5  | 36.5  | 36.5 | 36.5 | 36.5 | 36.5 | 36.5  | 36.5 | 36.5  |
| ≥ 8000          | 24.5                       | 33.6 | 36.1 | 36.9 | 37.3 | 37.8  | 37.9 | 37.9  | 37.9  | 37.9 | 37.9 | 37.9 | 37.9 | 37.9  | 37.9 | 37.9  |
| ≥ 7000          | 24.9                       | 34.0 | 36.5 | 37.3 | 37.7 | 38.2  | 38.3 | 38.3  | 38.3  | 38.3 | 38.3 | 38.3 | 38.3 | 38.3  | 38.3 | 38.3  |
| ≥ 6000          | 24.9                       | 34.0 | 36.5 | 37.3 | 37.7 | 38.2  | 38.3 | 38.3  | 38.3  | 38.3 | 38.3 | 38.3 | 38.3 | 38.3  | 38.3 | 38.3  |
| ≥ 5000          | 25.5                       | 34.9 | 37.3 | 38.1 | 38.5 | 39.0  | 39.1 | 39.1  | 39.1  | 39.1 | 39.1 | 39.1 | 39.1 | 39.1  | 39.1 | 39.1  |
| ≥ 4500          | 25.7                       | 35.4 | 37.9 | 38.7 | 39.1 | 39.7  | 39.8 | 39.8  | 39.8  | 39.8 | 39.8 | 39.8 | 39.8 | 39.8  | 39.8 | 39.8  |
| ≥ 4000          | 26.5                       | 36.5 | 39.1 | 39.8 | 40.2 | 40.8  | 40.9 | 40.9  | 40.9  | 40.9 | 40.9 | 40.9 | 40.9 | 40.9  | 40.9 | 40.9  |
| ≥ 3500          | 27.5                       | 37.7 | 40.2 | 41.0 | 41.4 | 42.0  | 42.1 | 42.1  | 42.1  | 42.1 | 42.1 | 42.1 | 42.1 | 42.1  | 42.1 | 42.1  |
| ≥ 3000          | 29.5                       | 40.8 | 43.4 | 44.5 | 44.9 | 45.4  | 45.6 | 45.6  | 45.6  | 45.6 | 45.6 | 45.6 | 45.6 | 45.6  | 45.6 | 45.6  |
| ≥ 2500          | 35.0                       | 47.5 | 50.9 | 52.1 | 52.8 | 53.6  | 53.8 | 53.8  | 53.8  | 53.8 | 53.8 | 53.8 | 53.8 | 53.8  | 53.8 | 53.8  |
| ≥ 2000          | 40.5                       | 56.7 | 61.0 | 63.3 | 64.1 | 64.9  | 65.4 | 65.5  | 65.5  | 65.5 | 65.5 | 65.5 | 65.5 | 65.5  | 65.5 | 65.5  |
| ≥ 1800          | 42.4                       | 60.7 | 65.1 | 67.8 | 68.8 | 69.8  | 70.5 | 70.6  | 70.6  | 70.6 | 70.6 | 70.6 | 70.6 | 70.6  | 70.6 | 70.6  |
| ≥ 1500          | 43.4                       | 63.5 | 68.5 | 72.0 | 73.2 | 75.2  | 76.3 | 77.2  | 77.2  | 77.2 | 77.2 | 77.2 | 77.2 | 77.2  | 77.2 | 77.2  |
| ≥ 1200          | 44.4                       | 65.5 | 71.3 | 75.5 | 77.3 | 79.8  | 81.2 | 84.6  | 84.6  | 84.7 | 84.7 | 84.7 | 84.7 | 84.7  | 84.7 | 84.7  |
| ≥ 1000          | 44.8                       | 66.6 | 72.9 | 77.3 | 79.4 | 81.9  | 83.5 | 87.0  | 87.0  | 88.1 | 88.2 | 88.2 | 88.2 | 88.2  | 88.2 | 88.2  |
| ≥ 900           | 45.4                       | 67.3 | 73.7 | 78.3 | 80.6 | 83.4  | 85.4 | 89.0  | 89.0  | 90.1 | 90.2 | 90.2 | 90.2 | 90.2  | 90.2 | 90.2  |
| ≥ 800           | 45.4                       | 67.6 | 74.1 | 78.7 | 81.0 | 83.8  | 85.8 | 89.4  | 89.4  | 90.9 | 91.4 | 91.4 | 91.4 | 91.4  | 91.4 | 91.4  |
| ≥ 700           | 45.6                       | 67.8 | 74.4 | 79.1 | 81.6 | 84.9  | 87.1 | 90.9  | 90.9  | 92.5 | 93.0 | 93.0 | 93.0 | 93.0  | 93.0 | 93.0  |
| ≥ 600           | 45.6                       | 67.8 | 74.4 | 79.1 | 81.6 | 84.9  | 87.5 | 91.7  | 91.7  | 93.3 | 94.2 | 94.2 | 94.2 | 94.2  | 94.2 | 94.2  |
| ≥ 500           | 45.6                       | 67.8 | 74.4 | 79.2 | 81.8 | 85.1  | 87.9 | 92.2  | 92.2  | 94.4 | 95.8 | 95.8 | 96.0 | 96.0  | 96.0 | 96.0  |
| ≥ 400           | 45.6                       | 67.8 | 74.4 | 79.2 | 81.9 | 85.4  | 88.2 | 92.8  | 92.8  | 95.3 | 96.9 | 96.9 | 97.1 | 97.1  | 97.1 | 97.1  |
| ≥ 300           | 45.6                       | 67.8 | 74.4 | 79.2 | 81.9 | 85.4  | 88.2 | 92.8  | 92.8  | 95.4 | 97.3 | 97.3 | 97.7 | 97.7  | 97.7 | 97.7  |
| ≥ 200           | 45.6                       | 67.8 | 74.4 | 79.2 | 81.9 | 85.4  | 88.2 | 92.8  | 92.8  | 95.8 | 97.9 | 97.9 | 98.4 | 98.4  | 98.8 | 98.8  |
| ≥ 100           | 45.6                       | 67.8 | 74.4 | 79.2 | 81.9 | 85.4  | 88.2 | 92.8  | 92.8  | 95.8 | 98.0 | 98.3 | 99.1 | 99.1  | 99.5 | 99.7  |
| ≥ 0             | 45.6                       | 67.8 | 74.4 | 79.2 | 81.9 | 85.4  | 88.2 | 92.8  | 92.8  | 95.8 | 98.0 | 98.3 | 99.2 | 99.2  | 99.7 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 746

CLIMATOLOGY BRANCH  
ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

FEB

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (LST)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.7 | ≥2   | ≥1.7 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥.4   |
| NO CEILING      | 21.2                       | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5 | 26.5  |
| ≥ 20000         | 26.4                       | 33.7 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4  |
| ≥ 18000         | 26.4                       | 33.7 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4  |
| ≥ 16000         | 26.4                       | 33.7 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4  |
| ≥ 14000         | 26.4                       | 33.7 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4  |
| ≥ 12000         | 28.2                       | 35.3 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6  |
| ≥ 10000         | 30.1                       | 37.9 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4  |
| ≥ 9000          | 30.2                       | 38.1 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5  |
| ≥ 8000          | 31.2                       | 39.0 | 40.5 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7 | 40.7  |
| ≥ 7000          | 31.6                       | 39.5 | 41.0 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3  |
| ≥ 6000          | 31.6                       | 39.8 | 41.3 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5  |
| ≥ 5000          | 32.5                       | 41.7 | 42.6 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9  |
| ≥ 4500          | 32.5                       | 41.1 | 42.7 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0  |
| ≥ 4000          | 34.5                       | 43.1 | 44.7 | 45.0 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1  |
| ≥ 3500          | 35.4                       | 44.2 | 45.8 | 46.1 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2  |
| ≥ 3000          | 37.8                       | 47.3 | 49.1 | 49.7 | 49.8 | 49.8 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1  |
| ≥ 2500          | 43.5                       | 54.5 | 56.6 | 57.1 | 57.3 | 57.4 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2  |
| ≥ 2000          | 49.5                       | 63.4 | 67.0 | 68.3 | 69.2 | 69.9 | 71.4 | 71.5 | 71.5 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8 | 71.8  |
| ≥ 1800          | 50.9                       | 66.2 | 69.8 | 71.8 | 72.7 | 73.5 | 75.1 | 75.4 | 75.4 | 75.6 | 75.6 | 75.6 | 75.6 | 75.6 | 75.6 | 75.6  |
| ≥ 1500          | 52.1                       | 68.4 | 72.3 | 74.3 | 75.5 | 76.4 | 78.7 | 79.1 | 79.1 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6  |
| ≥ 1200          | 52.3                       | 69.2 | 73.5 | 76.2 | 77.4 | 78.7 | 81.8 | 83.0 | 83.0 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6  |
| ≥ 1000          | 52.5                       | 69.6 | 73.9 | 76.7 | 78.3 | 79.8 | 83.2 | 85.1 | 85.1 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6  |
| ≥ 900           | 52.7                       | 70.3 | 74.6 | 77.5 | 79.1 | 80.6 | 84.2 | 86.3 | 86.3 | 88.1 | 88.4 | 88.4 | 88.4 | 88.5 | 88.5 | 88.5  |
| ≥ 800           | 52.7                       | 70.4 | 74.7 | 77.6 | 79.2 | 81.7 | 84.7 | 87.0 | 87.0 | 88.8 | 89.9 | 89.9 | 89.9 | 90.0 | 90.0 | 90.0  |
| ≥ 700           | 52.7                       | 70.4 | 74.7 | 77.9 | 79.6 | 81.4 | 85.1 | 87.5 | 87.5 | 89.5 | 90.8 | 90.8 | 90.8 | 90.9 | 90.9 | 90.9  |
| ≥ 600           | 52.7                       | 70.4 | 74.7 | 78.0 | 79.8 | 81.6 | 85.6 | 88.3 | 88.3 | 90.4 | 92.0 | 92.0 | 92.0 | 92.3 | 92.3 | 92.4  |
| ≥ 500           | 52.7                       | 70.4 | 74.7 | 78.0 | 79.8 | 81.9 | 86.4 | 89.6 | 89.6 | 91.7 | 94.0 | 94.0 | 94.4 | 94.4 | 94.5 | 94.5  |
| ≥ 400           | 52.7                       | 70.4 | 74.7 | 78.0 | 80.0 | 82.3 | 87.0 | 90.8 | 90.9 | 93.2 | 96.1 | 96.1 | 96.7 | 96.7 | 97.1 | 97.2  |
| ≥ 300           | 52.7                       | 70.4 | 74.7 | 79.0 | 80.0 | 82.3 | 87.0 | 90.8 | 90.9 | 93.6 | 96.8 | 96.8 | 97.7 | 97.7 | 98.1 | 98.3  |
| ≥ 200           | 52.7                       | 70.4 | 74.7 | 78.0 | 80.0 | 82.3 | 87.0 | 90.8 | 90.9 | 94.3 | 97.6 | 97.6 | 98.7 | 98.7 | 99.6 | 99.7  |
| ≥ 100           | 52.7                       | 70.4 | 74.7 | 78.0 | 80.0 | 82.3 | 87.0 | 90.8 | 90.9 | 94.3 | 97.6 | 97.6 | 98.7 | 98.7 | 99.6 | 99.7  |
| ≥ 0             | 52.7                       | 70.4 | 74.7 | 78.0 | 80.0 | 82.3 | 87.0 | 90.8 | 90.9 | 94.3 | 97.6 | 97.6 | 98.7 | 98.7 | 99.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 751

LOCAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

FEB  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |       |      |       |      |       |       |      |       |
|-----------------|--------------------------|------|------|------|------|-------|------|-------|-------|------|-------|------|-------|-------|------|-------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.2 | ≥ 1  | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .16 | ≥ .1 | ≥ 0   |
| NO CEILING      | 24.9                     | 29.7 | 29.7 | 29.7 | 29.7 | 29.7  | 29.7 | 29.7  | 29.7  | 29.7 | 29.7  | 29.7 | 29.7  | 29.7  | 29.7 | 29.7  |
| ≥ 20000         | 29.7                     | 35.6 | 36.4 | 36.4 | 36.5 | 36.5  | 36.5 | 36.5  | 36.5  | 36.5 | 36.5  | 36.5 | 36.5  | 36.5  | 36.5 | 36.5  |
| ≥ 18000         | 29.7                     | 35.6 | 36.4 | 36.4 | 36.5 | 36.5  | 36.5 | 36.5  | 36.5  | 36.5 | 36.5  | 36.5 | 36.5  | 36.5  | 36.5 | 36.5  |
| ≥ 16000         | 29.7                     | 35.6 | 36.4 | 36.4 | 36.5 | 36.5  | 36.5 | 36.5  | 36.5  | 36.5 | 36.5  | 36.5 | 36.5  | 36.5  | 36.5 | 36.5  |
| ≥ 14000         | 29.7                     | 35.6 | 36.4 | 36.4 | 36.5 | 36.5  | 36.5 | 36.5  | 36.5  | 36.5 | 36.5  | 36.5 | 36.5  | 36.5  | 36.5 | 36.5  |
| ≥ 12000         | 30.7                     | 37.1 | 37.9 | 37.9 | 38.0 | 38.2  | 38.2 | 38.2  | 38.2  | 38.2 | 38.2  | 38.2 | 38.2  | 38.2  | 38.2 | 38.2  |
| ≥ 10000         | 32.7                     | 39.8 | 40.6 | 40.6 | 40.8 | 41.0  | 41.0 | 41.0  | 41.0  | 41.0 | 41.0  | 41.0 | 41.0  | 41.0  | 41.0 | 41.0  |
| ≥ 9000          | 32.8                     | 39.9 | 40.7 | 40.7 | 41.0 | 41.1  | 41.1 | 41.1  | 41.1  | 41.1 | 41.1  | 41.1 | 41.1  | 41.1  | 41.1 | 41.1  |
| ≥ 8000          | 34.1                     | 41.4 | 42.3 | 42.4 | 42.7 | 43.0  | 43.0 | 43.0  | 43.0  | 43.0 | 43.0  | 43.0 | 43.0  | 43.0  | 43.0 | 43.0  |
| ≥ 7000          | 34.7                     | 42.3 | 43.2 | 43.4 | 43.6 | 43.9  | 43.9 | 43.9  | 43.9  | 43.9 | 43.9  | 43.9 | 43.9  | 43.9  | 43.9 | 43.9  |
| ≥ 6000          | 34.7                     | 42.4 | 43.5 | 43.6 | 43.9 | 44.2  | 44.2 | 44.2  | 44.2  | 44.2 | 44.2  | 44.2 | 44.2  | 44.2  | 44.2 | 44.2  |
| ≥ 5000          | 36.4                     | 44.6 | 45.8 | 45.9 | 46.2 | 46.5  | 46.5 | 46.5  | 46.5  | 46.5 | 46.5  | 46.5 | 46.5  | 46.5  | 46.5 | 46.5  |
| ≥ 4500          | 37.1                     | 45.9 | 47.1 | 47.3 | 47.5 | 47.8  | 47.8 | 47.8  | 47.8  | 47.8 | 47.8  | 47.8 | 47.8  | 47.8  | 47.8 | 47.8  |
| ≥ 4000          | 38.7                     | 48.1 | 49.5 | 49.7 | 49.9 | 50.2  | 50.2 | 50.2  | 50.2  | 50.2 | 50.2  | 50.2 | 50.2  | 50.2  | 50.2 | 50.2  |
| ≥ 3500          | 39.4                     | 48.9 | 50.5 | 50.6 | 50.9 | 51.1  | 51.1 | 51.1  | 51.1  | 51.1 | 51.1  | 51.1 | 51.1  | 51.1  | 51.1 | 51.1  |
| ≥ 3000          | 41.6                     | 53.1 | 54.9 | 55.2 | 55.4 | 55.7  | 55.7 | 55.8  | 55.8  | 55.8 | 55.8  | 55.8 | 55.8  | 55.8  | 55.8 | 55.8  |
| ≥ 2500          | 45.5                     | 58.4 | 60.5 | 60.8 | 61.3 | 61.7  | 61.7 | 61.8  | 61.8  | 61.8 | 61.8  | 61.8 | 61.8  | 61.8  | 61.8 | 61.8  |
| ≥ 2000          | 50.6                     | 66.7 | 69.6 | 70.5 | 71.5 | 72.2  | 72.8 | 73.2  | 73.2  | 73.4 | 73.4  | 73.4 | 73.4  | 73.4  | 73.4 | 73.4  |
| ≥ 1800          | 51.8                     | 68.8 | 71.8 | 73.4 | 74.7 | 75.4  | 76.0 | 76.4  | 76.4  | 76.7 | 76.7  | 76.7 | 76.7  | 76.7  | 76.7 | 76.7  |
| ≥ 1500          | 52.9                     | 70.7 | 74.2 | 76.6 | 78.0 | 79.0  | 80.3 | 81.0  | 81.0  | 81.3 | 81.3  | 81.3 | 81.3  | 81.3  | 81.3 | 81.3  |
| ≥ 1200          | 53.7                     | 71.8 | 75.5 | 78.3 | 79.9 | 81.1  | 83.0 | 84.2  | 84.2  | 84.5 | 84.6  | 84.6 | 84.6  | 84.6  | 84.6 | 84.6  |
| ≥ 1000          | 53.8                     | 72.0 | 75.9 | 78.8 | 80.5 | 82.2  | 84.1 | 85.4  | 85.4  | 86.2 | 86.5  | 86.5 | 86.5  | 86.5  | 86.5 | 86.5  |
| ≥ 900           | 53.8                     | 72.3 | 76.3 | 79.5 | 81.3 | 83.3  | 85.1 | 86.6  | 86.6  | 87.4 | 87.8  | 87.8 | 87.8  | 87.8  | 87.8 | 87.8  |
| ≥ 800           | 53.8                     | 72.6 | 76.6 | 80.1 | 81.8 | 84.2  | 86.3 | 88.1  | 88.1  | 88.9 | 89.6  | 89.6 | 89.6  | 89.6  | 89.6 | 89.6  |
| ≥ 700           | 53.8                     | 72.8 | 77.0 | 80.5 | 82.3 | 84.9  | 87.4 | 89.4  | 89.4  | 90.2 | 91.0  | 91.0 | 91.0  | 91.0  | 91.0 | 91.0  |
| ≥ 600           | 53.8                     | 72.8 | 77.0 | 80.5 | 82.6 | 85.4  | 88.1 | 90.5  | 90.5  | 91.3 | 92.4  | 92.4 | 92.5  | 92.5  | 92.5 | 92.5  |
| ≥ 500           | 53.8                     | 72.8 | 77.1 | 80.7 | 83.0 | 85.9  | 88.8 | 91.8  | 91.8  | 92.9 | 94.2  | 94.2 | 94.5  | 94.5  | 94.5 | 94.5  |
| ≥ 400           | 53.8                     | 72.8 | 77.1 | 80.7 | 83.0 | 86.1  | 89.2 | 92.8  | 92.8  | 94.0 | 95.4  | 95.4 | 95.9  | 96.0  | 96.1 | 96.1  |
| ≥ 300           | 53.8                     | 72.8 | 77.1 | 80.7 | 83.0 | 86.5  | 89.8 | 93.6  | 93.6  | 95.4 | 97.2  | 97.2 | 98.0  | 98.1  | 98.4 | 98.4  |
| ≥ 200           | 53.8                     | 72.8 | 77.1 | 80.9 | 83.3 | 86.7  | 90.1 | 93.8  | 94.0  | 96.0 | 97.7  | 97.7 | 98.7  | 98.8  | 99.2 | 99.2  |
| ≥ 100           | 53.8                     | 72.8 | 77.1 | 80.9 | 83.3 | 86.7  | 90.1 | 93.8  | 94.1  | 96.3 | 98.0  | 98.0 | 98.9  | 99.1  | 99.5 | 99.6  |
| ≥ 0             | 53.8                     | 72.8 | 77.1 | 80.9 | 83.3 | 86.7  | 90.1 | 93.8  | 94.1  | 96.3 | 98.0  | 98.0 | 98.9  | 99.1  | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 747



CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION

YOUNGSTOWN MAP OH

73-81

YEARS

FEET

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |       |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.25 | ≥1   | ≥.75 | ≥.5  | ≥.25 | ≥.16 | ≥.1  | ≥0    |
| NO CEILING      | 25.3                       | 31.5 | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 | 31.9  | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 | 31.9  |
| ≥ 20000         | 28.4                       | 36.1 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6  | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6  |
| ≥ 18000         | 28.6                       | 36.2 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7  | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7  |
| ≥ 16000         | 28.6                       | 36.2 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7  | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7  |
| ≥ 14000         | 28.6                       | 36.2 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7  | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7  |
| ≥ 12000         | 28.8                       | 36.5 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0  | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0  |
| ≥ 10000         | 31.5                       | 39.3 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9  | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9  |
| ≥ 9000          | 31.5                       | 39.5 | 40.2 | 40.2 | 40.2 | 40.2 | 40.2 | 40.2 | 40.2  | 40.2 | 40.2 | 40.2 | 40.2 | 40.2 | 40.2 | 40.2  |
| ≥ 8000          | 32.7                       | 41.6 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2  | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2  |
| ≥ 7000          | 33.8                       | 43.0 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8  | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8  |
| ≥ 6000          | 34.2                       | 43.4 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2  | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2  |
| ≥ 5000          | 35.7                       | 45.4 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2  | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2  |
| ≥ 4500          | 36.3                       | 46.5 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6  | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6  |
| ≥ 4000          | 38.2                       | 49.9 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1  | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1  |
| ≥ 3500          | 38.9                       | 51.5 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7  | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7  |
| ≥ 3000          | 40.7                       | 55.8 | 57.2 | 57.5 | 57.5 | 57.5 | 57.5 | 57.6 | 57.6  | 57.6 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6  |
| ≥ 2500          | 43.2                       | 59.5 | 61.3 | 61.9 | 62.2 | 62.2 | 62.2 | 62.3 | 62.3  | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3  |
| ≥ 2000          | 46.8                       | 66.4 | 69.3 | 70.5 | 70.8 | 71.0 | 71.2 | 71.3 | 71.3  | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3  |
| ≥ 1800          | 48.4                       | 69.3 | 72.3 | 74.7 | 75.2 | 75.5 | 75.7 | 75.9 | 75.9  | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1  |
| ≥ 1500          | 49.7                       | 72.1 | 75.6 | 78.2 | 79.0 | 79.2 | 79.8 | 79.9 | 79.9  | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7  |
| ≥ 1200          | 50.5                       | 74.1 | 77.7 | 80.8 | 81.6 | 81.9 | 82.4 | 82.6 | 82.6  | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6  |
| ≥ 1000          | 50.8                       | 75.1 | 78.7 | 82.2 | 83.1 | 83.5 | 84.3 | 84.5 | 84.5  | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7 | 85.7  |
| ≥ 900           | 50.8                       | 75.3 | 79.2 | 82.8 | 83.8 | 84.6 | 85.5 | 85.7 | 85.7  | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0  |
| ≥ 800           | 50.8                       | 76.1 | 80.7 | 83.8 | 85.0 | 85.9 | 87.1 | 87.3 | 87.3  | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0  |
| ≥ 700           | 50.9                       | 76.7 | 81.8 | 84.6 | 85.8 | 86.7 | 88.2 | 88.5 | 88.5  | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3 | 90.3  |
| ≥ 600           | 50.9                       | 76.8 | 81.1 | 85.1 | 86.3 | 87.5 | 89.1 | 89.5 | 89.5  | 91.6 | 91.6 | 91.6 | 91.7 | 91.7 | 91.7 | 91.7  |
| ≥ 500           | 50.9                       | 76.9 | 81.5 | 85.8 | 87.1 | 88.5 | 90.2 | 90.6 | 90.6  | 92.6 | 92.6 | 92.6 | 92.8 | 92.8 | 92.8 | 92.8  |
| ≥ 400           | 50.9                       | 77.2 | 82.0 | 86.7 | 88.1 | 89.5 | 91.6 | 92.0 | 92.0  | 94.1 | 94.2 | 94.2 | 94.4 | 94.4 | 94.4 | 94.4  |
| ≥ 300           | 50.9                       | 77.2 | 82.2 | 87.3 | 88.6 | 90.3 | 92.9 | 93.3 | 93.3  | 95.8 | 96.2 | 96.2 | 96.8 | 96.8 | 97.1 | 97.1  |
| ≥ 200           | 50.9                       | 77.2 | 82.2 | 87.4 | 88.9 | 90.6 | 93.2 | 93.8 | 93.8  | 96.4 | 97.3 | 97.3 | 98.3 | 98.3 | 98.9 | 98.9  |
| ≥ 100           | 50.9                       | 77.2 | 82.2 | 87.4 | 88.9 | 90.6 | 93.2 | 93.8 | 93.8  | 96.4 | 97.5 | 97.5 | 98.4 | 98.4 | 99.1 | 99.2  |
| ≥ 0             | 50.9                       | 77.2 | 82.2 | 87.4 | 88.9 | 90.6 | 93.2 | 93.8 | 93.8  | 96.4 | 97.5 | 97.5 | 98.4 | 98.4 | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 786

GLOBAL CLIMATOLOGY BRANCH  
ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

DATE YOUNGSTOWN MAP OH

73-81

FEB

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.4  | ≥.4  | ≥.3  | ≥.16 | ≥.1  | ≥0    |
| NO CEILING      | 19.9                       | 25.1 | 26.2 | 26.8 | 27.0 | 27.3 | 27.7 | 27.7 | 27.7 | 27.8 | 27.8 | 27.8 | 27.9 | 27.9 | 27.9 | 27.9  |
| ≥ 20000         | 22.3                       | 29.7 | 31.1 | 31.8 | 32.1 | 32.3 | 32.8 | 32.8 | 32.8 | 32.9 | 32.9 | 32.9 | 33.0 | 33.0 | 33.0 | 33.0  |
| ≥ 18000         | 22.4                       | 29.7 | 31.2 | 31.9 | 32.1 | 32.4 | 32.8 | 32.9 | 32.9 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 | 33.1 | 33.1  |
| ≥ 16000         | 22.4                       | 29.7 | 31.2 | 31.9 | 32.1 | 32.4 | 32.8 | 32.9 | 32.9 | 33.0 | 33.0 | 33.0 | 33.0 | 33.0 | 33.1 | 33.1  |
| ≥ 14000         | 22.5                       | 29.9 | 31.3 | 32.0 | 32.2 | 32.5 | 32.9 | 33.0 | 33.0 | 33.1 | 33.1 | 33.1 | 33.2 | 33.2 | 33.2 | 33.2  |
| ≥ 12000         | 23.4                       | 31.1 | 32.6 | 33.3 | 33.5 | 33.8 | 34.3 | 34.3 | 34.3 | 34.4 | 34.4 | 34.4 | 34.5 | 34.5 | 34.5 | 34.5  |
| ≥ 10000         | 25.4                       | 33.6 | 35.2 | 35.9 | 36.1 | 36.5 | 36.9 | 37.0 | 37.0 | 37.1 | 37.1 | 37.1 | 37.1 | 37.1 | 37.2 | 37.2  |
| ≥ 9000          | 25.5                       | 34.0 | 35.5 | 36.3 | 36.5 | 36.8 | 37.3 | 37.3 | 37.3 | 37.4 | 37.4 | 37.4 | 37.5 | 37.5 | 37.5 | 37.5  |
| ≥ 8000          | 26.4                       | 35.2 | 36.8 | 37.6 | 37.9 | 38.2 | 38.6 | 38.7 | 38.7 | 38.8 | 38.8 | 38.8 | 38.9 | 38.9 | 38.9 | 38.9  |
| ≥ 7000          | 27.1                       | 36.3 | 37.9 | 38.8 | 39.0 | 39.4 | 39.8 | 39.9 | 39.9 | 40.0 | 40.0 | 40.0 | 40.1 | 40.1 | 40.1 | 40.1  |
| ≥ 6000          | 27.3                       | 36.6 | 38.3 | 39.1 | 39.4 | 39.7 | 40.2 | 40.2 | 40.2 | 40.3 | 40.3 | 40.3 | 40.4 | 40.4 | 40.4 | 40.4  |
| ≥ 5000          | 28.7                       | 38.8 | 40.6 | 41.4 | 41.7 | 42.0 | 42.5 | 42.6 | 42.6 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.8 | 42.8  |
| ≥ 4500          | 29.7                       | 40.2 | 42.0 | 42.8 | 43.1 | 43.5 | 44.0 | 44.0 | 44.0 | 44.1 | 44.1 | 44.1 | 44.2 | 44.2 | 44.2 | 44.2  |
| ≥ 4000          | 31.3                       | 42.6 | 44.5 | 45.5 | 45.9 | 46.3 | 46.8 | 46.9 | 46.9 | 47.0 | 47.0 | 47.0 | 47.0 | 47.0 | 47.1 | 47.1  |
| ≥ 3500          | 32.2                       | 44.0 | 45.9 | 47.0 | 47.3 | 47.7 | 48.2 | 48.3 | 48.3 | 48.4 | 48.4 | 48.4 | 48.5 | 48.5 | 48.5 | 48.5  |
| ≥ 3000          | 34.3                       | 47.7 | 52.0 | 51.3 | 51.8 | 52.2 | 52.8 | 52.9 | 52.9 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.2 | 53.2  |
| ≥ 2500          | 37.6                       | 52.6 | 55.3 | 56.9 | 57.5 | 58.2 | 58.9 | 59.1 | 59.1 | 59.2 | 59.2 | 59.2 | 59.3 | 59.3 | 59.3 | 59.3  |
| ≥ 2000          | 41.3                       | 59.3 | 62.8 | 65.1 | 66.1 | 67.0 | 68.1 | 68.5 | 68.5 | 68.7 | 68.7 | 68.7 | 68.8 | 68.8 | 68.8 | 68.9  |
| ≥ 1800          | 42.5                       | 61.7 | 65.4 | 68.2 | 69.3 | 70.3 | 71.4 | 71.9 | 71.9 | 72.2 | 72.2 | 72.2 | 72.3 | 72.3 | 72.3 | 72.3  |
| ≥ 1500          | 43.7                       | 64.3 | 68.6 | 71.8 | 73.1 | 74.3 | 76.0 | 76.7 | 76.7 | 77.2 | 77.2 | 77.2 | 77.3 | 77.3 | 77.3 | 77.3  |
| ≥ 1200          | 44.6                       | 66.4 | 71.1 | 75.0 | 76.5 | 78.1 | 80.5 | 81.8 | 81.8 | 82.4 | 82.4 | 82.4 | 82.5 | 82.5 | 82.5 | 82.5  |
| ≥ 1000          | 44.9                       | 67.3 | 72.3 | 76.6 | 78.3 | 80.1 | 82.7 | 84.4 | 84.5 | 85.5 | 85.5 | 85.5 | 85.6 | 85.6 | 85.7 | 85.7  |
| ≥ 900           | 45.0                       | 67.8 | 73.0 | 77.6 | 79.4 | 81.4 | 84.2 | 86.0 | 86.0 | 87.1 | 87.2 | 87.2 | 87.4 | 87.4 | 87.4 | 87.4  |
| ≥ 800           | 45.0                       | 68.2 | 73.4 | 78.1 | 80.0 | 82.1 | 85.0 | 87.1 | 87.1 | 88.4 | 88.7 | 88.7 | 88.8 | 88.8 | 88.9 | 88.9  |
| ≥ 700           | 45.0                       | 68.6 | 73.9 | 78.7 | 80.7 | 83.0 | 86.1 | 88.4 | 88.4 | 89.8 | 90.2 | 90.2 | 90.3 | 90.3 | 90.3 | 90.3  |
| ≥ 600           | 45.1                       | 68.8 | 74.1 | 79.0 | 81.1 | 83.5 | 86.8 | 89.3 | 89.4 | 90.8 | 91.4 | 91.4 | 91.5 | 91.5 | 91.6 | 91.6  |
| ≥ 500           | 45.1                       | 69.0 | 74.4 | 79.4 | 81.6 | 84.1 | 87.6 | 90.3 | 90.4 | 92.0 | 92.8 | 92.8 | 93.1 | 93.1 | 93.1 | 93.1  |
| ≥ 400           | 45.1                       | 69.1 | 74.7 | 79.9 | 82.2 | 84.8 | 88.5 | 91.5 | 91.6 | 93.5 | 94.4 | 94.4 | 94.7 | 94.7 | 94.9 | 94.9  |
| ≥ 300           | 45.1                       | 69.2 | 74.8 | 80.1 | 82.5 | 85.3 | 89.1 | 92.2 | 92.3 | 94.5 | 95.7 | 95.7 | 96.2 | 96.2 | 96.3 | 96.4  |
| ≥ 200           | 45.1                       | 69.2 | 74.8 | 80.1 | 82.6 | 85.4 | 89.4 | 92.5 | 92.7 | 95.2 | 96.6 | 96.6 | 97.2 | 97.2 | 97.6 | 97.7  |
| ≥ 100           | 45.1                       | 69.2 | 74.8 | 80.1 | 82.6 | 85.4 | 89.4 | 92.6 | 92.8 | 95.5 | 97.0 | 97.1 | 97.9 | 98.0 | 98.6 | 99.0  |
| ≥ 0             | 45.1                       | 69.2 | 74.8 | 80.1 | 82.6 | 85.4 | 89.4 | 92.6 | 92.8 | 95.5 | 97.0 | 97.1 | 97.9 | 98.0 | 98.8 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 5959

LOCAL CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAR  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |       |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2½  | ≥2   | ≥1½  | ≥1¼  | ≥1   | ≥¾   | ≥½   | ≥¼   | ≥1/16 | ≥.   | ≥0    |
| NO CEILING      | 27.6                       | 32.5 | 33.3 | 35.5 | 33.9 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0  | 34.0 | 34.0  |
| ≥ 20000         | 29.2                       | 35.5 | 36.2 | 36.4 | 36.8 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9  | 36.9 | 36.9  |
| ≥ 18000         | 29.2                       | 35.5 | 36.2 | 36.4 | 36.8 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9  | 36.9 | 36.9  |
| ≥ 16000         | 29.2                       | 35.5 | 36.2 | 36.4 | 36.8 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9 | 36.9  | 36.9 | 36.9  |
| ≥ 14000         | 29.7                       | 36.7 | 36.7 | 36.9 | 37.3 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4  | 37.4 | 37.4  |
| ≥ 12000         | 29.9                       | 36.4 | 37.3 | 37.5 | 37.9 | 38.0 | 38.0 | 38.0 | 38.0 | 38.0 | 38.0 | 38.0 | 38.0 | 38.0  | 38.0 | 38.0  |
| ≥ 10000         | 32.5                       | 40.1 | 41.1 | 41.3 | 41.7 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8  | 41.8 | 41.8  |
| ≥ 9000          | 32.5                       | 40.1 | 41.1 | 41.3 | 41.7 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8 | 41.8  | 41.8 | 41.8  |
| ≥ 8000          | 34.5                       | 43.1 | 44.0 | 44.3 | 44.7 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8  | 44.8 | 44.8  |
| ≥ 7000          | 36.0                       | 44.5 | 45.5 | 45.9 | 46.3 | 46.4 | 46.4 | 46.4 | 46.4 | 46.4 | 46.4 | 46.4 | 46.4 | 46.4  | 46.4 | 46.4  |
| ≥ 6000          | 36.2                       | 44.9 | 45.9 | 46.3 | 46.6 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7  | 46.7 | 46.7  |
| ≥ 5000          | 42.1                       | 52.4 | 51.5 | 51.9 | 52.5 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6 | 52.6  | 52.6 | 52.6  |
| ≥ 4500          | 41.7                       | 52.6 | 53.7 | 54.1 | 54.7 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8  | 54.8 | 54.8  |
| ≥ 4000          | 43.4                       | 56.7 | 57.8 | 58.3 | 58.9 | 59.1 | 59.1 | 59.1 | 59.1 | 59.3 | 59.3 | 59.3 | 59.3 | 59.3  | 59.3 | 59.3  |
| ≥ 3500          | 45.2                       | 59.1 | 61.6 | 61.2 | 62.0 | 62.2 | 62.2 | 62.2 | 62.2 | 62.3 | 62.3 | 62.3 | 62.3 | 62.3  | 62.3 | 62.3  |
| ≥ 3000          | 43.7                       | 63.4 | 64.9 | 65.9 | 66.7 | 67.1 | 67.2 | 67.2 | 67.2 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4  | 67.4 | 67.4  |
| ≥ 2500          | 51.0                       | 67.7 | 69.6 | 70.8 | 72.0 | 72.4 | 72.6 | 72.6 | 72.6 | 72.8 | 72.8 | 72.8 | 72.8 | 72.8  | 72.8 | 72.8  |
| ≥ 2000          | 53.5                       | 72.3 | 74.4 | 76.3 | 77.8 | 78.3 | 78.5 | 78.5 | 78.5 | 78.7 | 78.7 | 78.7 | 78.7 | 78.7  | 78.7 | 78.7  |
| ≥ 1800          | 54.2                       | 73.9 | 76.1 | 78.0 | 79.6 | 80.4 | 80.6 | 80.6 | 80.6 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7  | 80.7 | 80.7  |
| ≥ 1500          | 55.7                       | 76.1 | 78.5 | 80.6 | 82.5 | 83.2 | 83.4 | 83.4 | 83.4 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6  | 83.6 | 83.6  |
| ≥ 1200          | 56.1                       | 77.2 | 79.8 | 81.8 | 83.8 | 84.7 | 85.0 | 85.0 | 85.0 | 85.2 | 85.2 | 85.2 | 85.2 | 85.2  | 85.2 | 85.2  |
| ≥ 1000          | 56.4                       | 77.7 | 80.5 | 82.7 | 84.7 | 85.5 | 86.0 | 86.1 | 86.3 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5  | 86.5 | 86.5  |
| ≥ 900           | 56.6                       | 78.2 | 81.3 | 84.0 | 86.1 | 87.0 | 87.5 | 87.6 | 87.7 | 88.1 | 88.2 | 88.2 | 88.2 | 88.2  | 88.2 | 88.2  |
| ≥ 800           | 56.7                       | 78.7 | 82.1 | 85.0 | 87.2 | 88.2 | 88.7 | 88.8 | 89.0 | 89.3 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4  |
| ≥ 700           | 56.8                       | 79.3 | 82.9 | 86.4 | 88.6 | 89.6 | 90.1 | 90.2 | 90.3 | 90.7 | 90.9 | 90.9 | 90.9 | 90.9  | 90.9 | 90.9  |
| ≥ 600           | 56.8                       | 79.5 | 83.2 | 87.1 | 89.7 | 90.7 | 91.2 | 91.3 | 91.4 | 91.8 | 92.0 | 92.0 | 92.1 | 92.1  | 92.1 | 92.1  |
| ≥ 500           | 56.8                       | 79.6 | 83.4 | 87.9 | 90.6 | 91.7 | 92.1 | 92.4 | 92.5 | 92.9 | 93.1 | 93.1 | 93.3 | 93.3  | 93.3 | 93.3  |
| ≥ 400           | 56.9                       | 79.8 | 84.0 | 88.6 | 91.4 | 92.8 | 93.3 | 93.6 | 93.7 | 94.5 | 94.8 | 94.8 | 95.0 | 95.0  | 95.1 | 95.1  |
| ≥ 300           | 56.9                       | 79.8 | 84.0 | 89.0 | 91.9 | 93.5 | 94.0 | 94.5 | 94.7 | 95.8 | 96.4 | 96.4 | 96.6 | 96.6  | 96.7 | 96.7  |
| ≥ 200           | 56.9                       | 79.8 | 84.0 | 89.2 | 92.3 | 94.0 | 94.6 | 95.2 | 95.5 | 96.8 | 97.7 | 97.8 | 97.9 | 97.9  | 98.0 | 98.0  |
| ≥ 100           | 56.9                       | 79.8 | 84.0 | 89.2 | 92.3 | 94.0 | 94.7 | 95.3 | 95.8 | 97.2 | 98.2 | 98.3 | 98.5 | 98.8  | 98.9 | 99.3  |
| ≥ 0             | 56.9                       | 79.8 | 84.0 | 89.2 | 92.3 | 94.0 | 94.7 | 95.3 | 95.8 | 97.2 | 98.2 | 98.3 | 98.8 | 99.1  | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 815

FEDERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION

YOUNGSTOWN MAP OH

73-81

YEARS

MAP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.2 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥.0   |
| NO CEILING      | 24.6                       | 28.9 | 29.6 | 30.4 | 30.5 | 30.5 | 30.8 | 30.8 | 30.8 | 30.9 | 31.0 | 31.0 | 31.2 | 31.2 | 31.2 | 31.2  |
| ≥ 20000         | 27.3                       | 32.2 | 33.2 | 34.2 | 34.3 | 34.4 | 34.7 | 34.7 | 34.7 | 34.8 | 34.9 | 34.9 | 35.0 | 35.0 | 35.0 | 35.0  |
| ≥ 18000         | 27.3                       | 32.2 | 33.2 | 34.2 | 34.3 | 34.4 | 34.7 | 34.7 | 34.7 | 34.8 | 34.9 | 34.9 | 35.0 | 35.0 | 35.0 | 35.0  |
| ≥ 16000         | 27.3                       | 32.2 | 33.2 | 34.2 | 34.3 | 34.4 | 34.7 | 34.7 | 34.7 | 34.8 | 34.9 | 34.9 | 35.0 | 35.0 | 35.0 | 35.0  |
| ≥ 14000         | 27.4                       | 32.3 | 33.3 | 34.3 | 34.4 | 34.5 | 34.8 | 34.8 | 34.8 | 34.9 | 35.0 | 35.0 | 35.2 | 35.2 | 35.2 | 35.2  |
| ≥ 12000         | 27.7                       | 33.0 | 34.0 | 35.0 | 35.2 | 35.3 | 35.5 | 35.5 | 35.5 | 35.7 | 35.8 | 35.8 | 35.9 | 35.9 | 35.9 | 35.9  |
| ≥ 10000         | 28.7                       | 34.4 | 35.8 | 36.8 | 36.9 | 37.0 | 37.3 | 37.3 | 37.3 | 37.4 | 37.5 | 37.5 | 37.7 | 37.7 | 37.7 | 37.7  |
| ≥ 9000          | 29.1                       | 34.9 | 36.3 | 37.3 | 37.4 | 37.5 | 37.8 | 37.8 | 37.8 | 37.9 | 38.0 | 38.0 | 38.2 | 38.2 | 38.2 | 38.2  |
| ≥ 8000          | 31.4                       | 37.5 | 38.9 | 39.9 | 40.0 | 40.1 | 40.4 | 40.4 | 40.4 | 40.5 | 40.6 | 40.6 | 40.8 | 40.8 | 40.8 | 40.8  |
| ≥ 7000          | 32.8                       | 39.9 | 41.3 | 42.3 | 42.4 | 42.5 | 42.8 | 42.8 | 42.8 | 42.9 | 43.0 | 43.0 | 43.1 | 43.1 | 43.1 | 43.1  |
| ≥ 6000          | 32.9                       | 40.1 | 41.5 | 42.6 | 42.8 | 42.9 | 43.1 | 43.1 | 43.1 | 43.3 | 43.4 | 43.4 | 43.5 | 43.5 | 43.5 | 43.5  |
| ≥ 5000          | 34.9                       | 43.5 | 45.0 | 46.1 | 46.3 | 46.4 | 46.6 | 46.6 | 46.6 | 46.8 | 46.9 | 46.9 | 47.0 | 47.0 | 47.0 | 47.0  |
| ≥ 4500          | 35.5                       | 45.1 | 47.0 | 48.1 | 48.3 | 48.5 | 48.8 | 48.8 | 48.8 | 48.9 | 49.0 | 49.0 | 49.1 | 49.1 | 49.1 | 49.1  |
| ≥ 4000          | 37.5                       | 48.3 | 51.2 | 51.6 | 52.0 | 52.2 | 52.5 | 52.5 | 52.5 | 52.6 | 52.7 | 52.7 | 52.9 | 52.9 | 52.9 | 52.9  |
| ≥ 3500          | 38.8                       | 51.1 | 53.5 | 55.0 | 55.4 | 55.6 | 56.0 | 56.0 | 56.0 | 56.1 | 56.2 | 56.2 | 56.4 | 56.4 | 56.4 | 56.4  |
| ≥ 3000          | 40.0                       | 54.1 | 56.9 | 58.9 | 59.2 | 59.5 | 59.9 | 59.9 | 59.9 | 60.0 | 60.1 | 60.1 | 60.2 | 60.2 | 60.2 | 60.2  |
| ≥ 2500          | 43.1                       | 60.1 | 63.7 | 65.2 | 65.6 | 66.1 | 66.5 | 66.5 | 66.5 | 66.6 | 66.7 | 66.7 | 66.8 | 66.8 | 66.8 | 66.8  |
| ≥ 2000          | 45.4                       | 65.0 | 69.5 | 72.8 | 73.3 | 73.8 | 74.2 | 74.2 | 74.2 | 74.3 | 74.4 | 74.4 | 74.6 | 74.6 | 74.6 | 74.6  |
| ≥ 1800          | 46.0                       | 66.8 | 71.6 | 74.9 | 75.4 | 75.9 | 76.3 | 76.3 | 76.3 | 76.4 | 76.6 | 76.6 | 76.7 | 76.7 | 76.7 | 76.7  |
| ≥ 1500          | 47.4                       | 69.2 | 74.1 | 77.9 | 78.8 | 79.4 | 79.8 | 79.9 | 79.9 | 80.0 | 80.2 | 80.2 | 80.3 | 80.3 | 80.3 | 80.7  |
| ≥ 1200          | 49.7                       | 72.4 | 77.3 | 81.8 | 82.8 | 83.5 | 84.0 | 84.3 | 84.3 | 84.4 | 84.5 | 84.5 | 84.7 | 84.7 | 84.7 | 84.7  |
| ≥ 1000          | 49.3                       | 73.1 | 78.2 | 82.9 | 83.9 | 84.7 | 85.3 | 85.8 | 85.8 | 86.0 | 86.2 | 86.2 | 86.3 | 86.3 | 86.3 | 86.3  |
| ≥ 900           | 49.4                       | 73.6 | 79.1 | 84.2 | 85.3 | 86.0 | 86.8 | 87.3 | 87.3 | 87.5 | 87.7 | 87.7 | 87.8 | 87.8 | 87.8 | 87.8  |
| ≥ 800           | 49.4                       | 73.6 | 79.1 | 84.4 | 85.8 | 86.5 | 87.3 | 87.8 | 87.8 | 88.0 | 88.3 | 88.3 | 88.4 | 88.4 | 88.4 | 88.4  |
| ≥ 700           | 49.5                       | 74.3 | 80.2 | 85.8 | 87.5 | 88.3 | 89.0 | 89.5 | 89.5 | 89.8 | 90.0 | 90.0 | 90.3 | 90.3 | 90.3 | 90.3  |
| ≥ 600           | 49.5                       | 74.6 | 80.4 | 86.3 | 88.3 | 89.3 | 90.0 | 90.5 | 90.5 | 90.8 | 91.0 | 91.0 | 91.3 | 91.3 | 91.3 | 91.3  |
| ≥ 500           | 49.5                       | 74.8 | 81.0 | 87.2 | 89.7 | 90.6 | 91.5 | 92.0 | 92.1 | 92.4 | 92.6 | 92.6 | 92.9 | 92.9 | 92.9 | 92.9  |
| ≥ 400           | 49.5                       | 74.9 | 81.5 | 88.0 | 90.9 | 91.9 | 92.8 | 93.3 | 93.6 | 94.4 | 94.6 | 94.6 | 94.9 | 94.9 | 94.9 | 94.9  |
| ≥ 300           | 49.5                       | 75.3 | 81.9 | 88.5 | 92.3 | 93.3 | 94.4 | 95.1 | 95.6 | 96.5 | 96.8 | 96.8 | 97.0 | 97.0 | 97.0 | 97.0  |
| ≥ 200           | 49.5                       | 75.3 | 81.9 | 88.5 | 92.3 | 93.3 | 94.5 | 95.3 | 95.8 | 96.6 | 97.0 | 97.0 | 97.5 | 97.5 | 97.5 | 97.5  |
| ≥ 100           | 49.5                       | 75.3 | 81.9 | 88.5 | 92.3 | 93.3 | 94.5 | 95.5 | 96.0 | 96.9 | 97.9 | 97.9 | 98.5 | 98.5 | 98.8 | 99.1  |
| ≥ 0             | 49.5                       | 75.3 | 81.9 | 88.5 | 92.3 | 93.3 | 94.5 | 95.5 | 96.0 | 96.9 | 97.9 | 97.9 | 98.9 | 99.0 | 99.1 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 802

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3600-0800  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |      |      |      |      |       |      |       |      |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|------|------|------|------|-------|------|-------|------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1  | ≥ .5 | ≥ .4 | ≥ .3 | ≥ .25 | ≥ .2 | ≥ .15 | ≥ .1 |
| NO CEILING      | 21.3                       | 24.8 | 26.5 | 27.2 | 27.5 | 27.7  | 28.1 | 28.1  | 28.1 | 28.2 | 28.4 | 28.4 | 28.6  | 28.7 | 28.9  | 29.0 |
| ≥ 20000         | 23.3                       | 28.6 | 30.7 | 31.7 | 32.1 | 32.4  | 32.9 | 32.9  | 32.9 | 33.0 | 33.3 | 33.3 | 33.4  | 33.5 | 33.8  | 33.9 |
| ≥ 18000         | 23.9                       | 28.7 | 30.9 | 31.8 | 32.2 | 32.6  | 33.0 | 33.0  | 33.0 | 33.2 | 33.4 | 33.4 | 33.5  | 33.7 | 33.9  | 34.0 |
| ≥ 16000         | 23.9                       | 28.7 | 30.9 | 31.8 | 32.2 | 32.6  | 33.0 | 33.0  | 33.0 | 33.2 | 33.4 | 33.4 | 33.5  | 33.7 | 33.9  | 34.0 |
| ≥ 14000         | 23.9                       | 28.7 | 30.9 | 31.8 | 32.2 | 32.6  | 33.0 | 33.0  | 33.0 | 33.2 | 33.4 | 33.4 | 33.5  | 33.7 | 33.9  | 34.0 |
| ≥ 12000         | 24.5                       | 29.5 | 31.7 | 32.7 | 33.0 | 33.4  | 33.9 | 33.9  | 33.9 | 34.0 | 34.3 | 34.3 | 34.4  | 34.5 | 34.8  | 34.9 |
| ≥ 10000         | 25.2                       | 31.1 | 33.4 | 34.4 | 34.8 | 35.1  | 35.6 | 35.6  | 35.6 | 35.7 | 36.0 | 36.0 | 36.1  | 36.2 | 36.5  | 36.6 |
| ≥ 9000          | 26.0                       | 31.3 | 33.7 | 34.6 | 35.0 | 35.4  | 35.8 | 35.8  | 35.8 | 36.0 | 36.2 | 36.2 | 36.3  | 36.5 | 36.7  | 36.8 |
| ≥ 8000          | 27.7                       | 33.5 | 35.8 | 36.9 | 37.4 | 37.8  | 38.3 | 38.3  | 38.3 | 38.4 | 38.6 | 38.6 | 38.8  | 38.9 | 39.1  | 39.2 |
| ≥ 7000          | 28.3                       | 35.2 | 37.5 | 38.6 | 39.1 | 39.5  | 40.0 | 40.0  | 40.0 | 40.1 | 40.2 | 40.3 | 40.5  | 40.6 | 40.8  | 40.9 |
| ≥ 6000          | 28.8                       | 35.8 | 38.2 | 39.2 | 39.7 | 40.1  | 40.6 | 40.6  | 40.6 | 40.7 | 40.9 | 40.9 | 41.1  | 41.2 | 41.4  | 41.6 |
| ≥ 5000          | 30.1                       | 38.6 | 41.3 | 42.4 | 42.9 | 43.4  | 43.9 | 43.9  | 43.9 | 44.0 | 44.2 | 44.2 | 44.3  | 44.5 | 44.7  | 44.8 |
| ≥ 4500          | 31.1                       | 40.3 | 43.3 | 44.5 | 45.1 | 45.6  | 46.1 | 46.1  | 46.1 | 46.2 | 46.4 | 46.4 | 46.5  | 46.7 | 46.9  | 47.0 |
| ≥ 4000          | 32.4                       | 42.2 | 45.3 | 46.9 | 47.6 | 48.1  | 48.6 | 48.7  | 48.7 | 48.8 | 49.1 | 49.1 | 49.2  | 49.3 | 49.6  | 49.7 |
| ≥ 3500          | 34.3                       | 45.7 | 49.1 | 50.8 | 51.5 | 52.0  | 52.6 | 52.7  | 52.7 | 52.9 | 53.2 | 53.2 | 53.3  | 53.5 | 53.7  | 53.8 |
| ≥ 3000          | 36.9                       | 49.5 | 53.0 | 55.2 | 55.9 | 56.6  | 57.2 | 57.4  | 57.4 | 57.5 | 57.8 | 57.8 | 58.0  | 58.1 | 58.3  | 58.4 |
| ≥ 2500          | 39.7                       | 53.7 | 57.5 | 60.3 | 61.0 | 62.0  | 62.8 | 62.9  | 62.9 | 63.1 | 63.4 | 63.4 | 63.5  | 63.7 | 63.9  | 64.0 |
| ≥ 2000          | 42.5                       | 59.9 | 62.9 | 66.1 | 66.8 | 67.8  | 68.7 | 68.9  | 68.9 | 69.0 | 69.4 | 69.4 | 69.6  | 69.7 | 70.0  | 70.1 |
| ≥ 1800          | 43.6                       | 60.5 | 64.9 | 68.2 | 68.9 | 70.0  | 70.8 | 71.3  | 71.3 | 71.4 | 71.8 | 71.8 | 72.1  | 72.2 | 72.4  | 72.5 |
| ≥ 1500          | 44.5                       | 62.2 | 66.8 | 70.5 | 71.6 | 72.9  | 73.9 | 74.5  | 74.5 | 74.6 | 75.0 | 75.0 | 75.2  | 75.3 | 75.6  | 75.7 |
| ≥ 1200          | 45.7                       | 65.0 | 70.7 | 74.7 | 76.1 | 77.8  | 79.0 | 80.0  | 80.0 | 80.2 | 80.6 | 80.6 | 80.8  | 80.9 | 81.2  | 81.3 |
| ≥ 1000          | 46.1                       | 66.5 | 72.5 | 76.8 | 78.3 | 80.1  | 81.3 | 82.4  | 82.4 | 82.7 | 83.1 | 83.1 | 83.4  | 83.5 | 83.7  | 83.8 |
| ≥ 900           | 46.2                       | 66.8 | 73.0 | 77.5 | 79.2 | 81.4  | 82.6 | 83.7  | 83.7 | 84.2 | 84.6 | 84.6 | 84.8  | 84.9 | 85.2  | 85.3 |
| ≥ 800           | 46.5                       | 67.2 | 73.5 | 78.3 | 80.0 | 82.3  | 83.6 | 84.8  | 84.8 | 85.4 | 85.8 | 85.8 | 86.0  | 86.1 | 86.4  | 86.5 |
| ≥ 700           | 46.5                       | 68.0 | 74.5 | 79.6 | 81.3 | 84.0  | 85.5 | 86.8  | 86.8 | 87.6 | 88.0 | 88.1 | 88.5  | 88.6 | 88.8  | 88.9 |
| ≥ 600           | 46.7                       | 68.3 | 74.8 | 80.2 | 82.0 | 84.9  | 87.1 | 88.6  | 88.6 | 89.7 | 90.2 | 90.3 | 90.6  | 90.8 | 91.0  | 91.1 |
| ≥ 500           | 46.7                       | 68.8 | 75.7 | 81.5 | 83.5 | 86.6  | 89.1 | 90.6  | 90.8 | 92.0 | 92.7 | 92.8 | 93.6  | 93.7 | 94.0  | 94.2 |
| ≥ 400           | 46.7                       | 68.8 | 75.7 | 81.5 | 83.5 | 86.6  | 89.1 | 90.6  | 90.8 | 92.0 | 92.7 | 92.8 | 93.6  | 93.7 | 94.0  | 94.2 |
| ≥ 300           | 46.7                       | 68.8 | 75.7 | 81.5 | 83.5 | 86.6  | 89.1 | 90.6  | 90.8 | 92.0 | 92.7 | 92.8 | 93.6  | 93.7 | 94.0  | 94.2 |
| ≥ 200           | 46.7                       | 68.8 | 75.7 | 82.0 | 84.4 | 88.1  | 91.0 | 93.2  | 93.3 | 95.0 | 96.4 | 96.5 | 97.4  | 97.8 | 98.2  | 98.3 |
| ≥ 100           | 46.7                       | 68.8 | 75.7 | 82.0 | 84.4 | 88.1  | 91.0 | 93.2  | 93.3 | 95.0 | 96.4 | 96.5 | 97.4  | 97.8 | 98.2  | 98.3 |
| ≥ 0             | 46.7                       | 68.8 | 75.7 | 82.0 | 84.4 | 88.1  | 91.0 | 93.2  | 93.3 | 95.0 | 96.4 | 96.5 | 97.4  | 97.8 | 98.2  | 98.3 |

TOTAL NUMBER OF OBSERVATIONS 823

USAF ETAC FORM 0-14-3 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1990-1100  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥.4   |
| NO CEILING      | 21.7                     | 24.1 | 24.8 | 25.9 | 26.2 | 26.4 | 26.8 | 26.8 | 26.8 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2  |
| ≥ 20000         | 25.1                     | 29.9 | 30.8 | 32.0 | 32.6 | 33.2 | 33.6 | 33.6 | 33.6 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9  |
| ≥ 18000         | 25.1                     | 29.9 | 30.8 | 32.0 | 32.6 | 33.2 | 33.6 | 33.6 | 33.6 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9  |
| ≥ 16000         | 25.1                     | 29.9 | 30.8 | 32.0 | 32.6 | 33.2 | 33.6 | 33.6 | 33.6 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9 | 33.9  |
| ≥ 14000         | 25.2                     | 30.7 | 31.6 | 32.8 | 33.5 | 34.1 | 34.4 | 34.4 | 34.4 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8  |
| ≥ 12000         | 26.3                     | 31.9 | 32.6 | 34.1 | 34.8 | 35.4 | 35.8 | 35.8 | 35.8 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1  |
| ≥ 10000         | 27.5                     | 33.9 | 34.9 | 36.1 | 36.8 | 37.5 | 37.8 | 37.8 | 37.8 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2  |
| ≥ 9000          | 27.5                     | 34.2 | 35.2 | 36.4 | 37.1 | 37.7 | 38.1 | 38.1 | 38.1 | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 | 38.4  |
| ≥ 8000          | 29.3                     | 36.8 | 37.8 | 39.0 | 39.9 | 40.6 | 41.0 | 41.0 | 41.0 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3  |
| ≥ 7000          | 29.6                     | 37.5 | 38.4 | 39.6 | 40.5 | 41.2 | 41.6 | 41.6 | 41.6 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9  |
| ≥ 6000          | 29.8                     | 37.8 | 38.8 | 40.0 | 40.8 | 41.6 | 41.9 | 41.9 | 41.9 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  |
| ≥ 5000          | 31.3                     | 39.2 | 40.1 | 41.6 | 42.5 | 43.3 | 43.6 | 43.6 | 43.6 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0 | 44.0  |
| ≥ 4500          | 31.4                     | 40.7 | 41.7 | 43.2 | 44.1 | 44.8 | 45.5 | 45.5 | 45.5 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8  |
| ≥ 4000          | 32.8                     | 42.9 | 43.9 | 45.6 | 46.5 | 47.3 | 47.9 | 47.9 | 47.9 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2  |
| ≥ 3500          | 35.2                     | 45.9 | 47.0 | 49.0 | 49.9 | 50.8 | 51.4 | 51.4 | 51.4 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8  |
| ≥ 3000          | 37.0                     | 48.5 | 50.3 | 52.6 | 53.6 | 54.5 | 55.4 | 55.4 | 55.4 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8  |
| ≥ 2500          | 40.5                     | 53.0 | 55.0 | 57.5 | 58.4 | 59.8 | 61.1 | 61.1 | 61.1 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5  |
| ≥ 2000          | 45.9                     | 59.6 | 61.9 | 65.0 | 66.3 | 67.8 | 69.1 | 69.2 | 69.2 | 69.6 | 69.6 | 69.6 | 69.6 | 69.6 | 69.6 | 69.6  |
| ≥ 1800          | 47.5                     | 62.1 | 64.6 | 67.6 | 69.0 | 70.4 | 71.8 | 71.9 | 71.9 | 72.2 | 72.2 | 72.2 | 72.2 | 72.2 | 72.2 | 72.2  |
| ≥ 1500          | 49.2                     | 65.3 | 68.2 | 71.6 | 73.0 | 74.8 | 76.4 | 76.7 | 76.7 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1  |
| ≥ 1200          | 51.4                     | 68.2 | 71.4 | 75.2 | 76.8 | 79.2 | 81.2 | 81.8 | 81.8 | 82.4 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5 | 82.5  |
| ≥ 1000          | 51.9                     | 68.8 | 72.2 | 76.2 | 78.4 | 81.1 | 83.3 | 83.9 | 83.9 | 84.8 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1 | 85.1  |
| ≥ 900           | 52.1                     | 69.3 | 72.8 | 77.2 | 79.5 | 82.3 | 84.6 | 85.5 | 85.5 | 86.5 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9 | 86.9  |
| ≥ 800           | 52.2                     | 69.7 | 73.2 | 77.8 | 80.1 | 83.2 | 85.5 | 86.3 | 86.3 | 87.5 | 88.1 | 88.1 | 88.2 | 88.2 | 88.2 | 88.2  |
| ≥ 700           | 52.2                     | 70.1 | 73.6 | 78.7 | 81.0 | 84.5 | 86.8 | 87.6 | 87.6 | 88.8 | 89.6 | 89.6 | 89.8 | 89.8 | 89.8 | 89.8  |
| ≥ 600           | 52.2                     | 70.1 | 73.8 | 79.4 | 81.8 | 85.6 | 88.2 | 89.3 | 89.3 | 90.5 | 91.4 | 91.4 | 91.6 | 91.6 | 91.6 | 91.6  |
| ≥ 500           | 52.4                     | 70.4 | 74.3 | 80.1 | 82.8 | 87.2 | 89.9 | 91.4 | 91.4 | 92.8 | 93.8 | 93.8 | 94.3 | 94.3 | 94.5 | 94.5  |
| ≥ 400           | 52.4                     | 70.5 | 74.4 | 80.4 | 83.3 | 87.9 | 90.8 | 92.7 | 92.7 | 94.7 | 95.6 | 95.6 | 96.1 | 96.1 | 96.6 | 96.6  |
| ≥ 300           | 52.4                     | 70.8 | 74.8 | 80.7 | 83.6 | 88.2 | 91.3 | 93.7 | 93.7 | 96.0 | 97.1 | 97.1 | 97.6 | 97.6 | 98.1 | 98.1  |
| ≥ 200           | 52.4                     | 70.8 | 74.8 | 80.7 | 83.6 | 88.4 | 91.5 | 93.9 | 93.9 | 96.6 | 97.8 | 97.8 | 98.7 | 98.7 | 99.2 | 99.2  |
| ≥ 100           | 52.4                     | 70.8 | 74.8 | 80.7 | 83.6 | 88.4 | 91.5 | 93.9 | 93.9 | 96.6 | 97.9 | 97.9 | 99.3 | 99.3 | 99.8 | 99.8  |
| ≥ 0             | 52.4                     | 70.8 | 74.8 | 80.7 | 83.6 | 88.4 | 91.5 | 93.9 | 93.9 | 96.6 | 97.9 | 97.9 | 99.3 | 99.3 | 99.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 825

GLOBAL CLIMATOLOGY BRANCH  
ETAC  
A WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP 04

73-81

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS LT

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.7 | ≥2   | ≥1.5 | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   |
| NO CEILING      | 23.2                     | 26.5 | 27.4 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 |
| ≥ 20000         | 24.7                     | 34.5 | 35.5 | 35.6 | 35.7 | 36.0 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 |
| ≥ 18000         | 28.7                     | 34.5 | 35.5 | 35.6 | 35.7 | 36.0 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 |
| ≥ 16000         | 28.7                     | 34.5 | 35.5 | 35.6 | 35.7 | 36.0 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 |
| ≥ 14000         | 29.7                     | 35.0 | 35.8 | 36.1 | 36.2 | 36.5 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 |
| ≥ 12000         | 29.6                     | 36.2 | 37.5 | 37.7 | 38.0 | 38.2 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 |
| ≥ 10000         | 31.4                     | 33.5 | 39.7 | 39.9 | 40.2 | 40.4 | 40.7 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 |
| ≥ 9000          | 31.6                     | 33.7 | 39.9 | 40.2 | 40.4 | 40.7 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 |
| ≥ 8000          | 32.9                     | 40.5 | 41.8 | 42.0 | 42.3 | 42.5 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 |
| ≥ 7000          | 33.5                     | 41.5 | 43.0 | 43.2 | 43.5 | 43.7 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 |
| ≥ 6000          | 33.8                     | 41.8 | 43.0 | 43.5 | 43.7 | 44.0 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 |
| ≥ 5000          | 34.5                     | 43.1 | 44.6 | 45.0 | 45.2 | 45.5 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |
| ≥ 4500          | 35.7                     | 44.3 | 45.8 | 46.2 | 46.4 | 46.8 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 |
| ≥ 4000          | 37.6                     | 46.9 | 48.8 | 49.1 | 49.4 | 49.8 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 |
| ≥ 3500          | 40.0                     | 50.1 | 52.1 | 52.6 | 52.8 | 53.2 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 |
| ≥ 3000          | 43.0                     | 54.2 | 56.3 | 56.9 | 57.1 | 57.9 | 58.0 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 |
| ≥ 2500          | 48.4                     | 60.9 | 63.1 | 64.4 | 64.7 | 65.6 | 65.8 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 | 66.1 |
| ≥ 2000          | 53.6                     | 70.6 | 73.2 | 74.4 | 75.3 | 76.7 | 76.9 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 |
| ≥ 1800          | 55.7                     | 73.8 | 77.0 | 78.5 | 79.7 | 81.3 | 81.9 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 | 82.4 |
| ≥ 1500          | 56.6                     | 77.0 | 80.7 | 82.6 | 84.0 | 85.7 | 86.5 | 87.7 | 87.7 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 | 87.8 |
| ≥ 1200          | 57.1                     | 77.8 | 81.7 | 83.5 | 85.0 | 87.1 | 87.8 | 89.2 | 89.3 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 | 89.6 |
| ≥ 1000          | 57.2                     | 78.0 | 82.2 | 84.4 | 85.9 | 88.6 | 89.4 | 91.2 | 91.4 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 |
| ≥ 900           | 57.4                     | 78.1 | 82.7 | 85.1 | 86.7 | 89.4 | 90.4 | 92.3 | 92.5 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 |
| ≥ 800           | 57.4                     | 78.1 | 82.7 | 85.1 | 86.7 | 89.4 | 90.4 | 92.3 | 92.5 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 |
| ≥ 700           | 57.4                     | 78.1 | 82.7 | 85.1 | 86.7 | 89.4 | 90.4 | 92.3 | 92.5 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 |
| ≥ 600           | 57.4                     | 78.1 | 82.7 | 85.1 | 86.7 | 89.4 | 90.4 | 92.3 | 92.5 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 |
| ≥ 500           | 57.4                     | 78.3 | 83.2 | 86.1 | 87.7 | 91.0 | 92.8 | 95.2 | 95.5 | 95.9 | 96.1 | 96.1 | 96.6 | 96.6 | 96.6 | 96.6 |
| ≥ 400           | 57.4                     | 78.4 | 83.3 | 86.2 | 88.0 | 91.6 | 93.9 | 96.8 | 97.1 | 97.7 | 97.9 | 97.9 | 98.4 | 98.4 | 98.4 | 98.4 |
| ≥ 300           | 57.4                     | 78.4 | 83.4 | 86.4 | 88.1 | 91.8 | 94.1 | 97.4 | 97.7 | 98.5 | 98.8 | 98.8 | 99.3 | 99.3 | 99.3 | 99.3 |
| ≥ 200           | 57.4                     | 78.4 | 83.4 | 86.4 | 88.1 | 91.8 | 94.1 | 97.5 | 97.8 | 98.8 | 98.8 | 99.3 | 99.3 | 99.8 | 99.9 | 99.9 |
| ≥ 100           | 57.4                     | 78.4 | 83.4 | 86.4 | 88.1 | 91.8 | 94.1 | 97.5 | 97.8 | 98.8 | 98.8 | 99.3 | 99.3 | 99.8 | 99.9 | 99.9 |
| ≥ 0             | 57.4                     | 78.4 | 83.4 | 86.4 | 88.1 | 91.8 | 94.1 | 97.5 | 97.8 | 98.8 | 98.8 | 99.3 | 99.3 | 99.8 | 99.9 | 99.9 |

TOTAL NUMBER OF OBSERVATIONS 614

ALBANY CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
YOUNGSTOWN MAP OH

73-31

YEARS

4AY  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

157-170  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |      |       |        |       |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|------|-------|--------|-------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥0.5 | ≥0.25 | ≥0.1 | ≥0.05 | ≥0.025 | ≥0.01 | ≥0    |
| NO CEILING      | 72.4                     | 75.7 | 75.9 | 75.9 | 76.1 | 76.1 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2  | 76.2 | 76.2  | 76.2   | 76.2  | 76.2  |
| ≥ 20000         | 31.6                     | 36.4 | 36.9 | 37.0 | 37.4 | 37.4 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5  | 37.5 | 37.5  | 37.5   | 37.5  | 37.5  |
| ≥ 18000         | 31.9                     | 36.6 | 37.2 | 37.4 | 37.7 | 37.7 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9  | 37.9 | 37.9  | 37.9   | 37.9  | 37.9  |
| ≥ 16000         | 31.7                     | 36.5 | 37.4 | 37.5 | 37.9 | 37.9 | 38.0 | 38.0 | 38.0 | 38.0 | 38.0  | 38.0 | 38.0  | 38.0   | 38.0  | 38.0  |
| ≥ 14000         | 32.4                     | 37.3 | 37.9 | 38.0 | 38.4 | 38.4 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5  | 38.5 | 38.5  | 38.5   | 38.5  | 38.5  |
| ≥ 12000         | 34.1                     | 39.1 | 39.7 | 39.8 | 40.2 | 40.2 | 40.3 | 40.3 | 40.3 | 40.3 | 40.3  | 40.3 | 40.3  | 40.3   | 40.3  | 40.3  |
| ≥ 10000         | 35.3                     | 41.1 | 41.7 | 41.8 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3 | 42.3  | 42.3   | 42.3  | 42.3  |
| ≥ 9000          | 35.7                     | 41.5 | 42.2 | 42.3 | 42.6 | 42.6 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8  | 42.8 | 42.8  | 42.8   | 42.8  | 42.8  |
| ≥ 8000          | 36.5                     | 43.1 | 43.8 | 43.9 | 44.2 | 44.2 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4  | 44.4 | 44.4  | 44.4   | 44.4  | 44.4  |
| ≥ 7000          | 36.3                     | 43.8 | 44.3 | 44.5 | 44.9 | 44.9 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0  | 45.0 | 45.0  | 45.0   | 45.0  | 45.0  |
| ≥ 6000          | 37.1                     | 44.2 | 44.9 | 45.0 | 45.3 | 45.3 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5  | 45.5 | 45.5  | 45.5   | 45.5  | 45.5  |
| ≥ 5000          | 33.4                     | 46.7 | 46.6 | 46.7 | 47.1 | 47.1 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2  | 47.2 | 47.2  | 47.2   | 47.2  | 47.2  |
| ≥ 4500          | 42.6                     | 48.5 | 49.3 | 49.4 | 49.8 | 49.8 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9  | 49.9 | 49.9  | 49.9   | 49.9  | 49.9  |
| ≥ 4000          | 42.4                     | 51.5 | 52.2 | 52.3 | 52.7 | 52.7 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8  | 52.8 | 52.8  | 52.8   | 52.8  | 52.8  |
| ≥ 3500          | 44.0                     | 55.7 | 55.8 | 56.0 | 56.4 | 56.4 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5  | 56.5 | 56.5  | 56.5   | 56.5  | 56.5  |
| ≥ 3000          | 43.7                     | 59.4 | 60.2 | 60.5 | 60.9 | 61.0 | 61.3 | 61.3 | 61.3 | 61.3 | 61.3  | 61.3 | 61.3  | 61.3   | 61.3  | 61.3  |
| ≥ 2500          | 54.8                     | 68.3 | 69.4 | 70.2 | 70.6 | 71.4 | 72.1 | 72.1 | 72.1 | 72.1 | 72.1  | 72.1 | 72.1  | 72.1   | 72.1  | 72.1  |
| ≥ 2000          | 57.4                     | 72.2 | 73.5 | 74.6 | 75.0 | 76.1 | 76.9 | 76.8 | 76.8 | 76.8 | 76.8  | 76.8 | 76.8  | 76.8   | 76.8  | 76.8  |
| ≥ 1800          | 59.4                     | 75.5 | 77.1 | 78.2 | 78.6 | 79.8 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6  | 80.6 | 80.6  | 80.6   | 80.6  | 80.6  |
| ≥ 1500          | 60.2                     | 77.5 | 79.8 | 81.1 | 81.7 | 83.1 | 83.9 | 84.1 | 84.1 | 84.2 | 84.2  | 84.2 | 84.2  | 84.2   | 84.2  | 84.2  |
| ≥ 1200          | 60.7                     | 79.7 | 82.1 | 84.2 | 84.9 | 86.8 | 88.0 | 88.1 | 88.1 | 88.2 | 88.2  | 88.2 | 88.2  | 88.2   | 88.2  | 88.2  |
| ≥ 1000          | 60.7                     | 79.9 | 82.5 | 84.8 | 85.5 | 87.5 | 89.0 | 89.1 | 89.1 | 89.3 | 89.3  | 89.3 | 89.3  | 89.3   | 89.3  | 89.3  |
| ≥ 900           | 60.8                     | 80.1 | 82.7 | 85.5 | 86.3 | 88.5 | 90.0 | 90.4 | 90.4 | 90.9 | 90.9  | 90.9 | 90.9  | 90.9   | 90.9  | 90.9  |
| ≥ 800           | 60.8                     | 80.6 | 83.3 | 86.5 | 87.3 | 89.5 | 90.9 | 91.7 | 91.7 | 92.2 | 92.3  | 92.3 | 92.4  | 92.4   | 92.4  | 92.4  |
| ≥ 700           | 60.8                     | 81.0 | 83.8 | 87.3 | 88.2 | 91.6 | 92.0 | 93.1 | 93.1 | 93.8 | 94.0  | 94.0 | 94.1  | 94.1   | 94.1  | 94.1  |
| ≥ 600           | 61.8                     | 81.0 | 83.9 | 87.7 | 88.7 | 91.3 | 92.9 | 94.5 | 94.5 | 95.1 | 95.5  | 95.5 | 95.6  | 95.6   | 95.6  | 95.6  |
| ≥ 500           | 60.9                     | 81.4 | 84.3 | 88.1 | 89.2 | 91.8 | 93.6 | 95.6 | 95.6 | 96.3 | 96.7  | 96.7 | 96.8  | 96.8   | 96.8  | 96.8  |
| ≥ 400           | 60.9                     | 81.4 | 84.4 | 88.4 | 89.5 | 92.2 | 94.1 | 96.4 | 96.4 | 97.4 | 97.8  | 97.8 | 98.0  | 98.0   | 98.0  | 98.0  |
| ≥ 300           | 60.9                     | 81.4 | 84.4 | 88.5 | 89.6 | 92.6 | 94.6 | 97.2 | 97.2 | 98.2 | 98.5  | 98.5 | 98.8  | 98.8   | 98.8  | 98.9  |
| ≥ 200           | 60.9                     | 81.4 | 84.4 | 88.5 | 89.6 | 92.6 | 94.6 | 97.4 | 97.4 | 98.5 | 98.9  | 98.9 | 99.3  | 99.3   | 99.5  | 99.6  |
| ≥ 100           | 60.9                     | 81.4 | 84.4 | 88.5 | 89.6 | 92.6 | 94.6 | 97.4 | 97.4 | 98.5 | 98.9  | 98.9 | 99.4  | 99.4   | 99.8  | 99.9  |
| ≥ 0             | 60.9                     | 81.4 | 84.4 | 88.5 | 89.6 | 92.6 | 94.6 | 97.4 | 97.4 | 98.5 | 98.9  | 98.9 | 99.4  | 99.4   | 99.8  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 516



CLIMATE CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP 04

73-81

YEARS

MAP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

19 0-2400

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥.15 | ≥.1  |
| NO CEILING      | 25.4                     | 22.5 | 20.6 | 19.8 | 19.8 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 | 19.9 |
| ≥ 20000         | 32.7                     | 37.3 | 37.7 | 37.8 | 38.0 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 |
| ≥ 18000         | 32.4                     | 37.6 | 37.9 | 38.2 | 38.4 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 |
| ≥ 16000         | 32.4                     | 37.6 | 37.9 | 38.2 | 38.4 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 |
| ≥ 14000         | 32.7                     | 37.8 | 38.2 | 38.4 | 38.7 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 |
| ≥ 12000         | 33.3                     | 38.5 | 38.1 | 39.4 | 39.6 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 |
| ≥ 10000         | 36.5                     | 42.4 | 43.2 | 43.4 | 43.7 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 |
| ≥ 9000          | 37.0                     | 42.9 | 43.7 | 43.9 | 44.1 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 |
| ≥ 8000          | 38.2                     | 44.3 | 45.0 | 45.2 | 45.5 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 | 45.7 |
| ≥ 7000          | 39.3                     | 45.4 | 46.1 | 46.3 | 46.6 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 |
| ≥ 6000          | 40.4                     | 46.5 | 47.2 | 47.4 | 47.7 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 |
| ≥ 5000          | 43.7                     | 51.6 | 51.7 | 51.6 | 52.0 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 |
| ≥ 4500          | 45.2                     | 52.8 | 53.5 | 53.8 | 54.1 | 54.4 | 54.4 | 54.4 | 54.4 | 54.4 | 54.4 | 54.4 | 54.4 | 54.4 | 54.4 | 54.4 |
| ≥ 4000          | 46.7                     | 56.1 | 56.8 | 57.1 | 57.4 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 |
| ≥ 3500          | 48.1                     | 58.6 | 59.6 | 59.9 | 60.2 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 |
| ≥ 3000          | 50.9                     | 62.0 | 62.9 | 63.5 | 63.9 | 64.6 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 |
| ≥ 2500          | 55.2                     | 68.3 | 69.9 | 71.3 | 72.0 | 72.7 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 |
| ≥ 2000          | 59.2                     | 72.8 | 75.0 | 77.0 | 77.6 | 78.9 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 |
| ≥ 1800          | 58.7                     | 74.1 | 76.5 | 78.9 | 79.5 | 81.1 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 |
| ≥ 1500          | 59.4                     | 75.7 | 78.2 | 80.9 | 81.5 | 83.2 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 |
| ≥ 1200          | 59.9                     | 77.2 | 81.1 | 83.0 | 83.8 | 85.7 | 86.7 | 86.8 | 86.8 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 |
| ≥ 1000          | 60.7                     | 78.0 | 81.3 | 84.4 | 85.1 | 87.3 | 88.3 | 88.4 | 88.4 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 |
| ≥ 900           | 61.1                     | 78.4 | 81.8 | 85.2 | 86.1 | 88.3 | 89.3 | 89.4 | 89.4 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 |
| ≥ 800           | 61.4                     | 79.1 | 82.3 | 86.3 | 87.2 | 89.4 | 90.4 | 91.0 | 91.0 | 91.2 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 |
| ≥ 700           | 60.4                     | 79.4 | 83.2 | 87.1 | 87.9 | 91.5 | 91.6 | 92.3 | 92.3 | 92.7 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 |
| ≥ 600           | 60.4                     | 79.4 | 83.2 | 87.4 | 88.5 | 91.2 | 92.6 | 93.5 | 93.5 | 94.7 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 |
| ≥ 500           | 60.4                     | 79.4 | 83.2 | 87.8 | 89.1 | 92.7 | 93.8 | 94.4 | 94.4 | 95.0 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5 |
| ≥ 400           | 60.4                     | 79.4 | 83.2 | 88.0 | 89.5 | 92.6 | 94.1 | 95.1 | 95.1 | 95.7 | 96.3 | 96.3 | 96.6 | 96.7 | 96.7 | 96.7 |
| ≥ 300           | 60.4                     | 79.4 | 83.2 | 88.3 | 89.8 | 92.9 | 94.9 | 96.0 | 96.0 | 96.7 | 97.4 | 97.6 | 97.8 | 97.9 | 97.9 | 97.9 |
| ≥ 200           | 60.4                     | 79.4 | 83.3 | 88.5 | 90.0 | 93.4 | 95.6 | 96.8 | 96.8 | 97.9 | 98.9 | 98.9 | 99.4 | 99.5 | 99.5 | 99.5 |
| ≥ 100           | 60.4                     | 79.4 | 83.3 | 88.5 | 90.0 | 93.5 | 95.7 | 97.0 | 97.0 | 98.2 | 99.1 | 99.3 | 99.8 | 99.9 | 99.9 | 99.9 |
| ≥ 0             | 60.4                     | 79.4 | 83.3 | 88.5 | 90.0 | 93.5 | 95.7 | 97.0 | 97.0 | 98.2 | 99.1 | 99.3 | 99.8 | 99.9 | 99.9 | 99.9 |

TOTAL NUMBER OF OBSERVATIONS 820

LOCAL CLIMATOLOGY BRANCH  
WETLAC  
WEATHER SERVICE/440

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

440  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1117-2300  
HOURS 157

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |      |       |        |        |       |        |         |      |
|-----------------|--------------------------|------|------|------|------|-------|------|-------|------|-------|--------|--------|-------|--------|---------|------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1  | ≥ 0.5 | ≥ 0.25 | ≥ 0.15 | ≥ 0.1 | ≥ 0.05 | ≥ 0.025 | ≥ 0  |
| NO CEILING      | 32.7                     | 32.1 | 32.7 | 31.9 | 32.9 | 32.9  | 32.9 | 32.9  | 32.9 | 32.9  | 32.9   | 32.9   | 32.9  | 32.9   | 32.9    | 33.0 |
| ≥ 20000         | 32.7                     | 37.7 | 38.8 | 39.1 | 39.1 | 39.1  | 39.1 | 39.1  | 39.1 | 39.1  | 39.1   | 39.1   | 39.1  | 39.1   | 39.1    | 39.3 |
| ≥ 18000         | 32.7                     | 37.7 | 38.8 | 39.1 | 39.1 | 39.1  | 39.1 | 39.1  | 39.1 | 39.1  | 39.1   | 39.1   | 39.1  | 39.1   | 39.1    | 39.3 |
| ≥ 16000         | 32.7                     | 37.7 | 38.8 | 39.1 | 39.1 | 39.1  | 39.1 | 39.1  | 39.1 | 39.1  | 39.1   | 39.1   | 39.1  | 39.1   | 39.1    | 39.3 |
| ≥ 14000         | 32.7                     | 37.7 | 38.8 | 39.3 | 39.3 | 39.3  | 39.3 | 39.3  | 39.3 | 39.3  | 39.3   | 39.3   | 39.3  | 39.3   | 39.3    | 39.4 |
| ≥ 12000         | 33.2                     | 38.2 | 39.3 | 39.8 | 39.8 | 39.8  | 39.8 | 39.8  | 39.8 | 39.8  | 39.8   | 39.8   | 39.8  | 39.8   | 39.8    | 39.9 |
| ≥ 10000         | 33.2                     | 41.2 | 42.3 | 42.9 | 42.9 | 42.9  | 42.9 | 42.9  | 42.9 | 42.9  | 42.9   | 42.9   | 42.9  | 42.9   | 42.9    | 43.2 |
| ≥ 9000          | 33.2                     | 42.0 | 43.2 | 43.8 | 43.8 | 43.8  | 43.8 | 43.8  | 43.8 | 43.8  | 43.8   | 43.8   | 43.8  | 43.8   | 43.8    | 43.9 |
| ≥ 8000          | 34.2                     | 43.4 | 44.5 | 45.2 | 45.2 | 45.2  | 45.2 | 45.2  | 45.2 | 45.2  | 45.2   | 45.2   | 45.2  | 45.2   | 45.2    | 45.4 |
| ≥ 7000          | 39.5                     | 44.9 | 46.0 | 46.7 | 46.7 | 46.7  | 46.7 | 46.7  | 46.7 | 46.7  | 46.7   | 46.7   | 46.7  | 46.7   | 46.7    | 46.8 |
| ≥ 6000          | 39.5                     | 45.4 | 46.5 | 47.2 | 47.2 | 47.2  | 47.2 | 47.2  | 47.2 | 47.2  | 47.2   | 47.2   | 47.2  | 47.2   | 47.2    | 47.2 |
| ≥ 5000          | 43.2                     | 51.1 | 51.2 | 52.1 | 52.1 | 52.1  | 52.1 | 52.1  | 52.1 | 52.1  | 52.1   | 52.1   | 52.1  | 52.1   | 52.1    | 52.2 |
| ≥ 4500          | 45.1                     | 53.2 | 54.4 | 55.2 | 55.2 | 55.2  | 55.4 | 55.4  | 55.4 | 55.4  | 55.4   | 55.4   | 55.4  | 55.4   | 55.4    | 55.5 |
| ≥ 4000          | 48.2                     | 53.2 | 59.4 | 61.2 | 61.2 | 61.2  | 60.4 | 60.4  | 60.4 | 60.4  | 60.4   | 60.4   | 60.4  | 60.4   | 60.4    | 60.5 |
| ≥ 3500          | 57.7                     | 61.1 | 62.4 | 63.3 | 63.3 | 63.3  | 63.4 | 63.4  | 63.4 | 63.4  | 63.4   | 63.4   | 63.4  | 63.4   | 63.4    | 63.5 |
| ≥ 3000          | 57.7                     | 65.0 | 66.7 | 67.7 | 67.8 | 67.8  | 68.2 | 68.2  | 68.2 | 68.2  | 68.2   | 68.2   | 68.2  | 68.2   | 68.2    | 68.3 |
| ≥ 2500          | 65.5                     | 69.4 | 71.4 | 73.4 | 73.7 | 73.7  | 74.4 | 74.4  | 74.4 | 74.4  | 74.4   | 74.4   | 74.4  | 74.4   | 74.4    | 74.5 |
| ≥ 2000          | 57.6                     | 74.0 | 75.6 | 78.9 | 79.1 | 79.3  | 80.1 | 80.1  | 80.1 | 80.1  | 80.1   | 80.1   | 80.1  | 80.1   | 80.1    | 80.2 |
| ≥ 1800          | 59.7                     | 75.6 | 76.3 | 80.6 | 80.9 | 81.0  | 81.8 | 81.8  | 81.8 | 81.8  | 81.8   | 81.8   | 81.8  | 81.8   | 81.8    | 82.1 |
| ≥ 1500          | 59.7                     | 77.6 | 81.4 | 82.9 | 83.3 | 83.4  | 84.3 | 84.3  | 84.3 | 84.3  | 84.3   | 84.3   | 84.3  | 84.3   | 84.3    | 84.4 |
| ≥ 1200          | 59.4                     | 79.7 | 81.7 | 85.1 | 85.5 | 85.6  | 86.5 | 86.6  | 86.6 | 86.6  | 86.6   | 86.6   | 86.6  | 86.6   | 86.6    | 86.7 |
| ≥ 1000          | 59.9                     | 79.4 | 82.7 | 86.2 | 86.5 | 86.7  | 87.6 | 87.7  | 87.7 | 87.7  | 87.7   | 87.7   | 87.7  | 87.7   | 87.7    | 87.8 |
| ≥ 900           | 59.7                     | 79.8 | 83.4 | 87.0 | 87.6 | 87.8  | 88.7 | 88.8  | 88.8 | 88.8  | 88.8   | 88.8   | 88.8  | 88.8   | 88.8    | 88.9 |
| ≥ 800           | 59.4                     | 81.5 | 84.5 | 88.4 | 89.0 | 89.3  | 90.1 | 90.2  | 90.2 | 90.2  | 90.4   | 90.4   | 90.4  | 90.4   | 90.4    | 90.5 |
| ≥ 700           | 59.4                     | 81.7 | 84.8 | 88.7 | 89.5 | 89.5  | 91.0 | 91.5  | 91.5 | 91.5  | 91.5   | 91.7   | 91.7  | 91.7   | 91.7    | 91.8 |
| ≥ 600           | 59.4                     | 81.2 | 85.2 | 89.1 | 90.1 | 91.0  | 92.0 | 92.4  | 92.4 | 92.4  | 92.6   | 93.0   | 93.0  | 93.0   | 93.0    | 93.2 |
| ≥ 500           | 59.4                     | 81.3 | 85.4 | 90.5 | 92.1 | 92.9  | 93.9 | 94.4  | 94.4 | 94.5  | 95.0   | 95.0   | 95.0  | 95.0   | 95.0    | 95.1 |
| ≥ 400           | 59.4                     | 81.3 | 85.5 | 91.7 | 93.2 | 94.3  | 95.0 | 95.5  | 95.5 | 95.5  | 95.7   | 96.2   | 96.2  | 96.2   | 96.2    | 96.3 |
| ≥ 300           | 59.4                     | 81.3 | 85.5 | 91.8 | 93.7 | 95.2  | 96.5 | 97.1  | 97.2 | 97.6  | 98.0   | 98.0   | 98.0  | 98.0   | 98.0    | 98.1 |
| ≥ 200           | 59.4                     | 81.3 | 85.5 | 91.8 | 93.7 | 95.6  | 97.0 | 97.8  | 97.9 | 98.4  | 99.0   | 99.0   | 99.1  | 99.1   | 99.1    | 99.3 |
| ≥ 100           | 59.4                     | 81.3 | 85.5 | 91.8 | 93.7 | 95.6  | 97.0 | 97.8  | 97.9 | 98.8  | 99.4   | 99.4   | 99.6  | 99.6   | 99.6    | 99.7 |
| ≥ 0             | 59.4                     | 81.3 | 85.5 | 91.8 | 93.7 | 95.6  | 97.0 | 97.8  | 97.9 | 98.8  | 99.4   | 99.4   | 99.6  | 99.6   | 99.6    | 99.7 |

TOTAL NUMBER OF OBSERVATIONS 527

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

LOCAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
YOUNGSTOWN

STATION NAME  
YOUNGSTOWN MAP OH

73-81

YEARS

MAP  
MOON

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1-24

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |       |      |      |      |      |       |      |       |
|-----------------|--------------------------|------|------|------|------|-------|------|-------|-------|------|------|------|------|-------|------|-------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .5 | ≥ .4 | ≥ .3 | ≥ .25 | ≥ .2 | ≥ 0   |
| NO CEILING      | 24.7                     | 25.6 | 23.7 | 29.1 | 29.3 | 29.4  | 29.5 | 29.5  | 29.5  | 29.6 | 29.6 | 29.6 | 29.6 | 29.7  | 29.7 | 29.7  |
| ≥ 20000         | 24.7                     | 25.6 | 23.7 | 29.1 | 29.3 | 29.4  | 29.5 | 29.5  | 29.5  | 29.6 | 29.6 | 29.6 | 29.6 | 29.7  | 29.7 | 29.7  |
| ≥ 18000         | 24.9                     | 34.1 | 35.1 | 35.6 | 35.9 | 36.1  | 36.3 | 36.3  | 36.3  | 36.3 | 36.4 | 36.4 | 36.4 | 36.4  | 36.4 | 36.5  |
| ≥ 16000         | 24.9                     | 34.1 | 35.1 | 35.6 | 35.9 | 36.1  | 36.3 | 36.3  | 36.3  | 36.3 | 36.4 | 36.4 | 36.4 | 36.4  | 36.5 | 36.5  |
| ≥ 14000         | 29.1                     | 34.4 | 35.4 | 36.0 | 36.2 | 36.4  | 36.6 | 36.6  | 36.6  | 36.7 | 36.7 | 36.7 | 36.8 | 36.8  | 36.8 | 36.8  |
| ≥ 12000         | 29.3                     | 35.4 | 36.4 | 37.0 | 37.3 | 37.5  | 37.7 | 37.7  | 37.7  | 37.8 | 37.8 | 37.8 | 37.8 | 37.9  | 37.9 | 37.9  |
| ≥ 10000         | 31.7                     | 37.8 | 39.7 | 39.6 | 39.9 | 40.1  | 40.3 | 40.3  | 40.3  | 40.4 | 40.4 | 40.4 | 40.4 | 40.4  | 40.5 | 40.5  |
| ≥ 9000          | 32.7                     | 38.2 | 39.4 | 40.0 | 40.3 | 40.5  | 40.7 | 40.7  | 40.7  | 40.7 | 40.8 | 40.8 | 40.8 | 40.8  | 40.9 | 40.9  |
| ≥ 8000          | 33.5                     | 40.3 | 41.5 | 42.1 | 42.4 | 42.6  | 42.8 | 42.8  | 42.8  | 42.9 | 42.9 | 42.9 | 43.0 | 43.0  | 43.0 | 43.0  |
| ≥ 7000          | 34.5                     | 41.6 | 42.8 | 43.4 | 43.7 | 44.0  | 44.1 | 44.1  | 44.1  | 44.2 | 44.3 | 44.3 | 44.3 | 44.3  | 44.3 | 44.4  |
| ≥ 6000          | 34.5                     | 42.1 | 43.3 | 43.9 | 44.2 | 44.5  | 44.6 | 44.6  | 44.6  | 44.7 | 44.8 | 44.8 | 44.8 | 44.8  | 44.8 | 44.9  |
| ≥ 5000          | 37.0                     | 45.2 | 46.5 | 47.2 | 47.6 | 47.8  | 48.0 | 48.0  | 48.0  | 48.0 | 48.1 | 48.1 | 48.1 | 48.1  | 48.2 | 48.2  |
| ≥ 4500          | 38.3                     | 47.2 | 48.6 | 49.3 | 49.7 | 50.0  | 50.2 | 50.2  | 50.2  | 50.3 | 50.3 | 50.3 | 50.4 | 50.4  | 50.4 | 50.4  |
| ≥ 4000          | 40.7                     | 50.3 | 51.6 | 52.6 | 53.1 | 53.4  | 53.6 | 53.6  | 53.6  | 53.7 | 53.8 | 53.8 | 53.8 | 53.8  | 53.9 | 53.9  |
| ≥ 3500          | 42.2                     | 53.4 | 55.0 | 56.0 | 56.4 | 56.8  | 57.0 | 57.1  | 57.1  | 57.2 | 57.2 | 57.2 | 57.2 | 57.3  | 57.3 | 57.3  |
| ≥ 3000          | 44.5                     | 57.7 | 58.9 | 60.1 | 60.6 | 61.1  | 61.5 | 61.5  | 61.5  | 61.6 | 61.7 | 61.7 | 61.7 | 61.7  | 61.8 | 61.8  |
| ≥ 2500          | 48.5                     | 62.7 | 64.9 | 66.6 | 67.2 | 67.9  | 68.6 | 68.6  | 68.6  | 68.7 | 68.8 | 68.8 | 68.8 | 68.8  | 68.8 | 68.9  |
| ≥ 2000          | 51.6                     | 67.8 | 70.3 | 72.7 | 73.5 | 74.4  | 75.1 | 75.2  | 75.2  | 75.3 | 75.3 | 75.3 | 75.4 | 75.4  | 75.4 | 75.4  |
| ≥ 1800          | 52.6                     | 67.9 | 72.3 | 75.1 | 75.9 | 76.9  | 77.6 | 77.7  | 77.7  | 77.8 | 77.9 | 77.9 | 77.9 | 77.9  | 78.0 | 78.0  |
| ≥ 1500          | 53.5                     | 72.2 | 75.4 | 78.0 | 79.0 | 80.2  | 80.9 | 81.2  | 81.2  | 81.3 | 81.3 | 81.3 | 81.4 | 81.4  | 81.4 | 81.5  |
| ≥ 1200          | 54.4                     | 74.5 | 78.1 | 81.0 | 81.2 | 83.6  | 84.6 | 85.0  | 85.0  | 85.2 | 85.3 | 85.3 | 85.3 | 85.4  | 85.4 | 85.4  |
| ≥ 1000          | 55.2                     | 75.1 | 78.9 | 82.2 | 83.4 | 85.0  | 86.1 | 86.6  | 86.6  | 86.6 | 86.9 | 87.0 | 87.0 | 87.1  | 87.1 | 87.1  |
| ≥ 900           | 55.3                     | 75.5 | 79.5 | 83.1 | 84.5 | 86.2  | 87.3 | 88.0  | 88.0  | 88.4 | 88.5 | 88.5 | 88.6 | 88.6  | 88.6 | 88.7  |
| ≥ 800           | 55.5                     | 75.9 | 80.1 | 84.0 | 85.4 | 87.2  | 88.4 | 89.1  | 89.2  | 89.6 | 89.8 | 89.8 | 89.9 | 89.9  | 89.9 | 90.0  |
| ≥ 700           | 55.5                     | 76.4 | 81.7 | 84.8 | 86.4 | 88.4  | 89.6 | 90.5  | 90.5  | 91.1 | 91.4 | 91.4 | 91.5 | 91.5  | 91.6 | 91.6  |
| ≥ 600           | 55.5                     | 76.5 | 81.9 | 85.4 | 87.1 | 89.3  | 90.7 | 91.8  | 91.8  | 92.4 | 92.8 | 92.8 | 92.9 | 93.0  | 93.0 | 93.0  |
| ≥ 500           | 55.5                     | 76.7 | 81.3 | 86.2 | 88.1 | 90.5  | 92.0 | 93.3  | 93.3  | 94.0 | 94.4 | 94.5 | 94.8 | 94.8  | 94.8 | 94.9  |
| ≥ 400           | 55.6                     | 76.8 | 81.5 | 86.6 | 88.7 | 91.3  | 93.0 | 94.5  | 94.6  | 95.5 | 96.0 | 96.0 | 96.3 | 96.4  | 96.5 | 96.5  |
| ≥ 300           | 55.5                     | 76.9 | 81.6 | 86.9 | 89.1 | 91.9  | 93.8 | 95.4  | 95.6  | 96.7 | 97.3 | 97.3 | 97.6 | 97.7  | 97.8 | 97.9  |
| ≥ 200           | 55.6                     | 76.9 | 81.6 | 86.9 | 89.2 | 92.1  | 94.1 | 95.9  | 96.1  | 97.3 | 98.1 | 98.1 | 98.6 | 98.7  | 98.9 | 98.9  |
| ≥ 100           | 55.6                     | 76.9 | 81.6 | 86.9 | 89.2 | 92.1  | 94.1 | 96.0  | 96.1  | 97.5 | 98.4 | 98.4 | 99.1 | 99.2  | 99.5 | 99.7  |
| ≥ 0             | 55.6                     | 76.9 | 81.6 | 86.9 | 89.2 | 92.1  | 94.1 | 96.0  | 96.1  | 97.5 | 98.4 | 98.4 | 99.2 | 99.3  | 99.7 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 6535

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH  
STATION NAME

73-81

YEARS

APR  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

000-0200  
HOURS LST

| CEILING<br>FEET | VISIBILITY / STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.0 | ≥1   | ≥.5  | ≥.25 | ≥.1  | ≥.05 | ≥.01 | ≥0   |
| NO CEILING      | 35.2                       | 40.7 | 40.8 | 41.0 | 41.4 | 41.4 | 41.4 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 |
| ≥ 20000         | 38.0                       | 45.5 | 45.6 | 45.8 | 46.2 | 46.2 | 46.2 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 |
| ≥ 18000         | 38.5                       | 45.5 | 45.6 | 45.8 | 46.2 | 46.2 | 46.2 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 |
| ≥ 16000         | 32.6                       | 45.5 | 45.6 | 45.8 | 46.2 | 46.2 | 46.2 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 |
| ≥ 14000         | 39.1                       | 46.0 | 46.1 | 46.3 | 46.7 | 46.7 | 46.7 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 |
| ≥ 12000         | 39.9                       | 46.7 | 47.0 | 47.2 | 47.6 | 47.6 | 47.6 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 | 48.2 |
| ≥ 10000         | 42.4                       | 49.7 | 50.0 | 50.3 | 50.6 | 50.6 | 50.6 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 |
| ≥ 9000          | 42.2                       | 50.3 | 50.5 | 50.8 | 51.1 | 51.1 | 51.1 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 | 51.8 |
| ≥ 8000          | 44.4                       | 52.7 | 52.9 | 53.2 | 53.5 | 53.5 | 53.5 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 | 54.2 |
| ≥ 7000          | 45.5                       | 54.3 | 54.7 | 55.1 | 55.4 | 55.4 | 55.4 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 | 56.1 |
| ≥ 6000          | 46.1                       | 55.3 | 55.7 | 56.1 | 56.4 | 56.4 | 56.4 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 | 57.1 |
| ≥ 5000          | 50.7                       | 60.9 | 61.4 | 61.9 | 62.2 | 62.2 | 62.2 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 | 62.9 |
| ≥ 4500          | 52.1                       | 64.2 | 64.6 | 65.2 | 65.5 | 65.5 | 65.5 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 |
| ≥ 4000          | 55.4                       | 68.8 | 69.4 | 70.3 | 70.8 | 70.8 | 70.8 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 |
| ≥ 3500          | 56.7                       | 70.8 | 71.7 | 72.6 | 73.1 | 73.1 | 73.1 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 | 73.7 |
| ≥ 3000          | 58.7                       | 75.4 | 76.9 | 77.8 | 78.4 | 78.4 | 78.4 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 |
| ≥ 2500          | 60.2                       | 78.7 | 80.2 | 81.1 | 81.7 | 81.7 | 81.7 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 |
| ≥ 2000          | 62.2                       | 81.9 | 83.6 | 84.5 | 85.5 | 85.5 | 85.5 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 |
| ≥ 1800          | 62.8                       | 82.7 | 84.3 | 85.2 | 86.5 | 86.5 | 86.5 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 |
| ≥ 1500          | 63.0                       | 83.1 | 85.0 | 86.0 | 87.4 | 87.4 | 87.4 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 |
| ≥ 1200          | 63.6                       | 84.6 | 86.5 | 87.9 | 89.3 | 89.3 | 89.3 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 | 90.0 |
| ≥ 1000          | 64.0                       | 85.5 | 87.5 | 89.4 | 90.8 | 90.8 | 90.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 | 91.8 |
| ≥ 900           | 64.7                       | 86.0 | 88.3 | 90.0 | 91.8 | 91.8 | 91.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 | 92.8 |
| ≥ 800           | 64.7                       | 85.0 | 88.0 | 90.3 | 92.0 | 92.0 | 92.0 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 |
| ≥ 700           | 64.1                       | 86.2 | 88.4 | 90.8 | 92.7 | 92.7 | 92.7 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 |
| ≥ 600           | 64.4                       | 86.7 | 89.1 | 91.9 | 93.9 | 93.9 | 93.9 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 |
| ≥ 500           | 64.4                       | 87.0 | 89.5 | 92.7 | 94.7 | 94.7 | 94.7 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 |
| ≥ 400           | 64.5                       | 87.5 | 90.5 | 94.2 | 96.5 | 96.5 | 96.5 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 | 98.2 |
| ≥ 300           | 64.5                       | 87.5 | 90.7 | 94.3 | 96.6 | 96.6 | 96.6 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 |
| ≥ 200           | 64.5                       | 87.5 | 90.7 | 94.3 | 96.6 | 96.6 | 96.6 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 |
| ≥ 100           | 64.5                       | 87.5 | 90.7 | 94.3 | 96.6 | 96.6 | 96.6 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 |
| ≥ 0             | 64.5                       | 87.5 | 90.7 | 94.3 | 96.6 | 96.6 | 96.6 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 |

TOTAL NUMBER OF OBSERVATIONS 792

GLOBAL CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

APP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥8   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥.4  |
| NO CEILING      | 35.1                     | 41.1 | 41.5 | 41.5 | 47.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.6 | 42.7 | 42.7 | 42.9 | 42.9 | 42.9 | 42.9 |
| ≥ 20000         | 38.1                     | 44.3 | 44.8 | 45.6 | 45.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.9 | 47.1 | 47.1 | 47.2 | 47.2 | 47.2 | 47.2 |
| ≥ 18000         | 38.1                     | 44.3 | 44.8 | 45.8 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.9 | 47.1 | 47.1 | 47.2 | 47.2 | 47.2 | 47.2 |
| ≥ 16000         | 33.7                     | 44.3 | 44.8 | 45.8 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6 | 46.9 | 47.1 | 47.1 | 47.2 | 47.2 | 47.2 | 47.2 |
| ≥ 14000         | 32.3                     | 44.5 | 45.7 | 46.1 | 46.8 | 46.8 | 46.8 | 46.8 | 46.8 | 47.2 | 47.3 | 47.3 | 47.5 | 47.5 | 47.5 | 47.5 |
| ≥ 12000         | 32.8                     | 45.0 | 45.5 | 46.6 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.7 | 47.8 | 47.8 | 48.0 | 48.0 | 48.0 | 48.0 |
| ≥ 10000         | 41.6                     | 48.7 | 49.2 | 50.3 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.4 | 51.5 | 51.5 | 51.7 | 51.7 | 51.7 | 51.7 |
| ≥ 9000          | 42.4                     | 49.6 | 50.1 | 51.1 | 51.9 | 51.9 | 51.9 | 51.9 | 51.9 | 52.3 | 52.4 | 52.4 | 52.5 | 52.5 | 52.5 | 52.5 |
| ≥ 8000          | 43.6                     | 52.0 | 52.5 | 53.6 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.8 | 55.0 | 55.0 | 55.1 | 55.1 | 55.1 | 55.1 |
| ≥ 7000          | 44.3                     | 53.1 | 53.7 | 54.7 | 55.6 | 55.6 | 55.6 | 55.6 | 55.6 | 56.0 | 56.1 | 56.1 | 56.2 | 56.2 | 56.2 | 56.2 |
| ≥ 6000          | 44.3                     | 53.9 | 54.6 | 55.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 57.0 | 57.1 | 57.1 | 57.3 | 57.3 | 57.3 | 57.3 |
| ≥ 5000          | 47.6                     | 57.6 | 58.4 | 59.1 | 61.1 | 61.1 | 61.1 | 61.1 | 61.1 | 61.5 | 61.6 | 61.6 | 61.7 | 61.7 | 61.7 | 61.7 |
| ≥ 4500          | 44.6                     | 59.1 | 59.9 | 61.4 | 62.6 | 62.6 | 62.6 | 62.6 | 62.6 | 63.0 | 63.1 | 63.1 | 63.2 | 63.2 | 63.2 | 63.2 |
| ≥ 4000          | 49.5                     | 60.6 | 61.5 | 63.7 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 65.1 | 65.3 | 65.3 | 65.4 | 65.4 | 65.4 | 65.4 |
| ≥ 3500          | 51.4                     | 63.1 | 64.1 | 66.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.8 | 67.9 | 67.9 | 68.1 | 68.1 | 68.1 | 68.1 |
| ≥ 3000          | 53.6                     | 68.1 | 69.6 | 72.1 | 73.2 | 73.2 | 73.2 | 73.2 | 73.2 | 73.5 | 73.7 | 73.7 | 73.8 | 73.8 | 73.8 | 73.8 |
| ≥ 2500          | 53.7                     | 70.9 | 72.4 | 75.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.7 | 76.8 | 76.8 | 77.0 | 77.0 | 77.0 | 77.0 |
| ≥ 2000          | 56.2                     | 74.2 | 75.7 | 78.9 | 79.9 | 79.9 | 80.3 | 80.3 | 80.3 | 80.7 | 80.8 | 80.8 | 80.9 | 80.9 | 80.9 | 80.9 |
| ≥ 1800          | 57.3                     | 75.7 | 77.2 | 80.4 | 81.4 | 81.4 | 81.8 | 81.8 | 81.8 | 82.2 | 82.3 | 82.3 | 82.4 | 82.4 | 82.4 | 82.4 |
| ≥ 1500          | 58.7                     | 77.6 | 79.1 | 82.3 | 83.3 | 83.3 | 83.7 | 83.7 | 83.7 | 84.1 | 84.2 | 84.2 | 84.4 | 84.4 | 84.4 | 84.4 |
| ≥ 1200          | 59.5                     | 81.3 | 81.6 | 84.7 | 85.9 | 85.9 | 86.3 | 86.3 | 86.3 | 86.6 | 86.8 | 86.8 | 86.9 | 86.9 | 86.9 | 86.9 |
| ≥ 1000          | 60.6                     | 81.7 | 83.5 | 86.9 | 88.3 | 88.3 | 88.7 | 88.7 | 88.7 | 89.1 | 89.2 | 89.2 | 89.3 | 89.3 | 89.3 | 89.3 |
| ≥ 900           | 61.3                     | 82.8 | 84.6 | 88.2 | 89.8 | 89.8 | 90.2 | 90.2 | 90.2 | 90.6 | 90.7 | 90.7 | 90.8 | 90.8 | 90.8 | 90.8 |
| ≥ 800           | 60.6                     | 84.2 | 86.1 | 89.6 | 91.3 | 91.3 | 91.7 | 92.0 | 92.0 | 92.4 | 92.5 | 92.5 | 92.6 | 92.6 | 92.6 | 92.6 |
| ≥ 700           | 60.9                     | 84.9 | 86.6 | 90.6 | 92.4 | 92.4 | 92.7 | 93.0 | 93.0 | 93.4 | 93.5 | 93.5 | 93.6 | 93.6 | 93.6 | 93.6 |
| ≥ 600           | 60.9                     | 85.5 | 87.3 | 91.3 | 93.3 | 93.3 | 93.6 | 94.1 | 94.1 | 94.5 | 94.7 | 94.7 | 94.9 | 94.9 | 94.9 | 94.9 |
| ≥ 500           | 61.9                     | 85.9 | 87.8 | 92.0 | 94.0 | 94.0 | 94.7 | 95.4 | 95.4 | 95.8 | 95.9 | 95.9 | 96.1 | 96.1 | 96.1 | 96.1 |
| ≥ 400           | 60.7                     | 86.1 | 89.0 | 92.7 | 94.9 | 95.2 | 96.3 | 97.1 | 97.1 | 97.5 | 97.6 | 97.6 | 97.7 | 97.7 | 97.7 | 97.7 |
| ≥ 300           | 60.9                     | 86.1 | 88.2 | 93.0 | 95.2 | 95.5 | 96.8 | 97.6 | 97.6 | 98.2 | 98.7 | 98.7 | 98.9 | 98.9 | 98.9 | 98.9 |
| ≥ 200           | 60.9                     | 86.1 | 89.2 | 93.0 | 95.2 | 95.7 | 96.9 | 97.8 | 97.8 | 98.6 | 99.1 | 99.1 | 99.2 | 99.2 | 99.2 | 99.2 |
| ≥ 100           | 60.9                     | 85.1 | 88.2 | 93.0 | 95.2 | 95.7 | 96.9 | 97.8 | 97.8 | 98.6 | 99.1 | 99.1 | 99.5 | 99.5 | 99.5 | 99.5 |
| ≥ 0             | 60.9                     | 86.1 | 88.2 | 93.0 | 95.2 | 95.7 | 96.9 | 97.8 | 97.8 | 98.6 | 99.1 | 99.1 | 99.5 | 99.5 | 99.5 | 99.5 |

TOTAL NUMBER OF OBSERVATIONS 785

ALBANY CLIMATOLOGY BRANCH  
USAF ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1600-0800  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |       |      |       |       |      |      |      |       |      |       |       |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|------|------|-------|------|-------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .4 | ≥ .3 | ≥ .25 | ≥ .2 | ≥ .16 | ≥ .1  |
| NO CEILING      | 39.7                       | 34.3 | 35.5 | 36.1 | 36.8 | 37.0  | 37.5 | 38.0  | 38.0  | 39.0 | 39.0 | 39.0 | 39.0  | 39.1 | 39.1  | 39.1  |
| ≥ 20000         | 32.1                       | 38.0 | 39.6 | 40.4 | 41.0 | 41.3  | 41.8 | 42.3  | 42.3  | 43.3 | 43.3 | 43.3 | 43.4  | 43.4 | 43.4  | 43.4  |
| ≥ 18000         | 32.1                       | 38.0 | 39.6 | 40.4 | 41.0 | 41.3  | 41.8 | 42.3  | 42.3  | 43.3 | 43.3 | 43.3 | 43.4  | 43.4 | 43.4  | 43.4  |
| ≥ 16000         | 32.1                       | 38.0 | 39.6 | 40.4 | 41.0 | 41.3  | 41.8 | 42.3  | 42.3  | 43.3 | 43.3 | 43.3 | 43.4  | 43.4 | 43.4  | 43.4  |
| ≥ 14000         | 32.4                       | 38.4 | 40.0 | 41.0 | 41.7 | 41.9  | 42.4 | 42.9  | 42.9  | 43.9 | 43.9 | 43.9 | 44.0  | 44.0 | 44.0  | 44.0  |
| ≥ 12000         | 33.8                       | 40.0 | 41.8 | 42.8 | 43.4 | 43.7  | 44.2 | 44.7  | 44.7  | 45.7 | 45.7 | 45.7 | 45.8  | 45.8 | 45.8  | 45.8  |
| ≥ 10000         | 35.6                       | 42.2 | 44.0 | 45.0 | 45.8 | 46.7  | 46.5 | 47.1  | 47.1  | 48.1 | 48.1 | 48.1 | 48.2  | 48.2 | 48.2  | 48.2  |
| ≥ 9000          | 36.0                       | 42.5 | 44.7 | 45.7 | 46.4 | 46.7  | 47.2 | 47.7  | 47.7  | 48.7 | 48.7 | 48.7 | 48.8  | 48.8 | 48.8  | 48.8  |
| ≥ 8000          | 37.3                       | 44.2 | 46.7 | 47.8 | 48.6 | 48.8  | 49.3 | 49.8  | 49.8  | 50.8 | 50.8 | 50.8 | 50.9  | 50.9 | 50.9  | 50.9  |
| ≥ 7000          | 37.8                       | 44.9 | 47.6 | 48.8 | 49.6 | 49.8  | 50.3 | 50.6  | 50.8  | 51.8 | 51.8 | 51.8 | 51.9  | 51.9 | 51.9  | 51.9  |
| ≥ 6000          | 38.3                       | 45.8 | 48.4 | 49.9 | 50.8 | 51.2  | 51.9 | 52.4  | 52.4  | 53.5 | 53.5 | 53.5 | 53.6  | 53.6 | 53.6  | 53.6  |
| ≥ 5000          | 41.3                       | 49.8 | 52.7 | 54.3 | 55.3 | 55.8  | 56.6 | 57.1  | 57.1  | 58.1 | 58.1 | 58.1 | 58.2  | 58.2 | 58.2  | 58.2  |
| ≥ 4500          | 42.5                       | 51.3 | 54.5 | 56.1 | 57.2 | 57.7  | 58.5 | 59.0  | 59.0  | 60.0 | 60.0 | 60.0 | 60.1  | 60.1 | 60.1  | 60.1  |
| ≥ 4000          | 45.4                       | 54.6 | 58.1 | 60.0 | 61.1 | 61.6  | 62.4 | 62.9  | 62.9  | 63.9 | 63.9 | 63.9 | 64.0  | 64.0 | 64.0  | 64.0  |
| ≥ 3500          | 47.1                       | 56.6 | 60.1 | 62.2 | 63.5 | 64.0  | 64.7 | 65.2  | 65.2  | 66.2 | 66.2 | 66.2 | 66.4  | 66.4 | 66.4  | 66.4  |
| ≥ 3000          | 48.7                       | 58.6 | 62.2 | 64.6 | 65.9 | 66.4  | 67.3 | 67.8  | 67.8  | 68.8 | 68.8 | 68.8 | 68.9  | 68.9 | 68.9  | 68.9  |
| ≥ 2500          | 49.4                       | 61.1 | 64.9 | 67.5 | 68.9 | 69.8  | 70.8 | 71.3  | 71.3  | 72.3 | 72.3 | 72.3 | 72.4  | 72.4 | 72.4  | 72.4  |
| ≥ 2000          | 51.9                       | 64.1 | 68.1 | 70.9 | 72.4 | 73.3  | 74.3 | 74.8  | 74.8  | 75.8 | 75.8 | 75.8 | 75.9  | 75.9 | 75.9  | 75.9  |
| ≥ 1800          | 53.3                       | 66.4 | 70.4 | 73.3 | 74.8 | 75.7  | 76.7 | 77.2  | 77.2  | 78.2 | 78.2 | 78.2 | 78.3  | 78.3 | 78.3  | 78.3  |
| ≥ 1500          | 54.7                       | 69.1 | 73.3 | 76.2 | 77.7 | 78.5  | 79.5 | 80.1  | 80.1  | 81.3 | 81.3 | 81.3 | 81.4  | 81.4 | 81.4  | 81.4  |
| ≥ 1200          | 55.6                       | 71.5 | 75.7 | 78.9 | 80.4 | 81.3  | 82.3 | 82.9  | 82.9  | 84.4 | 84.4 | 84.4 | 84.6  | 84.6 | 84.6  | 84.6  |
| ≥ 1000          | 56.6                       | 73.3 | 77.7 | 81.1 | 83.1 | 84.1  | 85.1 | 85.7  | 85.7  | 87.3 | 87.3 | 87.3 | 87.5  | 87.5 | 87.5  | 87.5  |
| ≥ 900           | 57.2                       | 74.7 | 79.0 | 82.8 | 84.8 | 85.9  | 87.2 | 88.1  | 88.1  | 89.7 | 89.8 | 89.8 | 90.0  | 90.0 | 90.0  | 90.0  |
| ≥ 800           | 57.5                       | 76.0 | 80.6 | 84.6 | 86.7 | 87.8  | 89.2 | 90.1  | 90.1  | 91.8 | 92.0 | 92.0 | 92.1  | 92.1 | 92.1  | 92.1  |
| ≥ 700           | 57.8                       | 77.0 | 81.6 | 85.8 | 88.1 | 89.6  | 91.0 | 91.8  | 91.8  | 93.6 | 93.7 | 93.7 | 93.9  | 93.9 | 93.9  | 93.9  |
| ≥ 600           | 57.8                       | 77.2 | 81.7 | 86.1 | 88.5 | 90.2  | 92.0 | 92.8  | 92.8  | 94.6 | 94.7 | 94.7 | 94.9  | 94.9 | 94.9  | 94.9  |
| ≥ 500           | 57.8                       | 77.4 | 81.9 | 86.3 | 88.8 | 90.7  | 92.5 | 93.4  | 93.4  | 95.2 | 95.4 | 95.4 | 95.5  | 95.5 | 95.5  | 95.5  |
| ≥ 400           | 57.8                       | 77.4 | 81.9 | 86.3 | 88.8 | 91.2  | 93.4 | 94.9  | 94.9  | 96.7 | 97.1 | 97.1 | 97.2  | 97.2 | 97.2  | 97.2  |
| ≥ 300           | 57.8                       | 77.4 | 81.9 | 86.3 | 88.8 | 91.3  | 93.5 | 95.1  | 95.1  | 97.4 | 97.7 | 97.7 | 97.9  | 97.9 | 97.9  | 97.9  |
| ≥ 200           | 57.8                       | 77.4 | 81.9 | 86.3 | 88.8 | 91.3  | 93.5 | 95.1  | 95.1  | 97.7 | 98.4 | 98.4 | 98.6  | 98.6 | 98.6  | 98.6  |
| ≥ 100           | 57.8                       | 77.4 | 81.9 | 86.3 | 88.8 | 91.3  | 93.5 | 95.1  | 95.1  | 97.7 | 98.4 | 98.4 | 98.9  | 98.9 | 98.9  | 98.9  |
| ≥ 0             | 57.8                       | 77.4 | 81.9 | 86.3 | 88.8 | 91.3  | 93.5 | 95.1  | 95.1  | 97.7 | 98.4 | 98.4 | 98.9  | 98.9 | 99.7  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 797

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

APR

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |       |       |        |       |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|--------|-------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼   | ≥ 1/8 | ≥ 1/16 | ≥ 0   |
| NO CEILING        | 27.1                       | 31.4 | 32.4 | 33.1 | 33.2 | 33.5 | 33.5 | 33.5 | 33.5 | 33.6 | 33.6 | 33.6 | 33.6  | 33.6  | 33.6   | 33.6  |
| ≥ 20000           | 33.7                       | 39.9 | 40.9 | 41.8 | 41.9 | 42.2 | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3  | 42.3   | 42.3  |
| IN 18000          | 33.9                       | 39.9 | 40.9 | 41.8 | 41.9 | 42.2 | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3  | 42.3   | 42.3  |
| IN 16000          | 33.9                       | 39.9 | 40.9 | 41.8 | 41.9 | 42.2 | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3  | 42.3   | 42.3  |
| IN 14000          | 33.9                       | 40.0 | 41.0 | 41.9 | 42.0 | 42.3 | 42.3 | 42.3 | 42.3 | 42.4 | 42.4 | 42.4 | 42.4  | 42.4  | 42.4   | 42.4  |
| IN 12000          | 35.0                       | 41.4 | 42.5 | 43.4 | 43.5 | 43.8 | 43.8 | 43.8 | 43.8 | 43.9 | 43.9 | 43.9 | 43.9  | 43.9  | 43.9   | 43.9  |
| IN 10000          | 37.8                       | 44.9 | 46.2 | 47.1 | 47.2 | 47.4 | 47.4 | 47.4 | 47.4 | 47.6 | 47.6 | 47.6 | 47.6  | 47.6  | 47.6   | 47.6  |
| IN 9000           | 38.3                       | 45.7 | 46.9 | 47.9 | 48.1 | 48.3 | 48.3 | 48.3 | 48.3 | 48.4 | 48.4 | 48.4 | 48.4  | 48.4  | 48.4   | 48.4  |
| IN 8000           | 39.1                       | 47.1 | 48.3 | 49.4 | 49.6 | 49.8 | 49.8 | 49.8 | 49.8 | 49.9 | 49.9 | 49.9 | 49.9  | 49.9  | 49.9   | 49.9  |
| IN 7000           | 39.3                       | 47.9 | 49.4 | 50.7 | 50.8 | 51.1 | 51.1 | 51.1 | 51.1 | 51.2 | 51.2 | 51.2 | 51.2  | 51.2  | 51.2   | 51.2  |
| IN 6000           | 41.2                       | 48.7 | 50.4 | 51.7 | 51.9 | 52.2 | 52.2 | 52.2 | 52.2 | 52.3 | 52.3 | 52.3 | 52.3  | 52.3  | 52.3   | 52.3  |
| IN 5000           | 42.2                       | 51.3 | 53.2 | 54.7 | 55.1 | 55.3 | 55.3 | 55.3 | 55.3 | 55.5 | 55.5 | 55.5 | 55.5  | 55.5  | 55.5   | 55.5  |
| IN 4500           | 43.3                       | 52.7 | 54.8 | 56.5 | 56.8 | 57.1 | 57.1 | 57.1 | 57.1 | 57.2 | 57.2 | 57.2 | 57.2  | 57.2  | 57.2   | 57.2  |
| IN 4000           | 45.5                       | 55.8 | 58.2 | 60.0 | 60.5 | 60.7 | 60.7 | 60.7 | 60.7 | 60.9 | 60.9 | 60.9 | 60.9  | 60.9  | 60.9   | 60.9  |
| IN 3500           | 47.1                       | 57.1 | 59.7 | 61.4 | 61.9 | 62.1 | 62.1 | 62.1 | 62.1 | 62.2 | 62.2 | 62.2 | 62.2  | 62.2  | 62.2   | 62.2  |
| IN 3000           | 49.3                       | 59.7 | 62.5 | 64.1 | 64.6 | 64.9 | 64.9 | 64.9 | 64.9 | 65.0 | 65.0 | 65.0 | 65.0  | 65.0  | 65.0   | 65.0  |
| IN 2500           | 53.3                       | 64.7 | 67.9 | 69.8 | 71.3 | 70.9 | 70.9 | 70.9 | 70.9 | 71.1 | 71.1 | 71.1 | 71.1  | 71.1  | 71.1   | 71.1  |
| IN 2000           | 58.3                       | 70.9 | 74.0 | 75.9 | 76.4 | 77.2 | 77.2 | 77.2 | 77.2 | 77.4 | 77.4 | 77.4 | 77.4  | 77.4  | 77.4   | 77.4  |
| IN 1800           | 59.3                       | 72.4 | 75.7 | 77.5 | 78.2 | 79.3 | 79.3 | 79.3 | 79.3 | 79.5 | 79.5 | 79.5 | 79.5  | 79.5  | 79.5   | 79.5  |
| IN 1500           | 60.0                       | 73.5 | 76.8 | 78.9 | 79.7 | 80.8 | 80.8 | 80.8 | 80.8 | 81.1 | 81.1 | 81.1 | 81.1  | 81.1  | 81.1   | 81.1  |
| IN 1200           | 61.4                       | 76.4 | 80.1 | 82.2 | 83.2 | 84.6 | 85.3 | 85.3 | 85.3 | 85.6 | 85.6 | 85.6 | 85.6  | 85.6  | 85.6   | 85.6  |
| IN 1000           | 62.0                       | 77.9 | 81.7 | 84.1 | 85.3 | 86.7 | 87.7 | 87.7 | 87.7 | 88.0 | 88.0 | 88.0 | 88.0  | 88.0  | 88.0   | 88.0  |
| IN 900            | 62.1                       | 78.8 | 82.7 | 85.2 | 86.4 | 88.1 | 89.1 | 89.1 | 89.1 | 89.3 | 89.3 | 89.3 | 89.3  | 89.3  | 89.3   | 89.3  |
| IN 800            | 62.6                       | 79.5 | 83.3 | 86.4 | 88.1 | 90.0 | 91.1 | 91.1 | 91.1 | 91.5 | 91.7 | 91.7 | 91.7  | 91.7  | 91.7   | 91.7  |
| IN 700            | 62.5                       | 80.2 | 84.7 | 87.5 | 89.2 | 91.3 | 92.5 | 92.7 | 92.7 | 93.0 | 93.2 | 93.2 | 93.2  | 93.2  | 93.2   | 93.2  |
| IN 600            | 62.6                       | 80.6 | 85.3 | 88.3 | 90.2 | 92.3 | 94.1 | 94.5 | 94.5 | 94.7 | 95.0 | 95.0 | 95.0  | 95.0  | 95.0   | 95.0  |
| IN 500            | 62.5                       | 80.7 | 85.4 | 88.6 | 90.8 | 93.4 | 95.4 | 96.4 | 96.5 | 96.7 | 97.1 | 97.1 | 97.6  | 97.6  | 97.6   | 97.6  |
| IN 400            | 62.6                       | 80.7 | 85.6 | 88.8 | 91.3 | 94.1 | 96.2 | 97.5 | 97.6 | 97.9 | 98.4 | 98.4 | 98.9  | 98.9  | 98.9   | 98.9  |
| IN 300            | 62.6                       | 80.7 | 85.6 | 88.8 | 91.7 | 94.7 | 97.1 | 98.4 | 98.5 | 99.0 | 99.5 | 99.5 | 100.0 | 100.0 | 100.0  | 100.0 |
| IN 200            | 62.6                       | 80.7 | 85.6 | 88.8 | 91.7 | 94.7 | 97.1 | 98.4 | 98.5 | 99.0 | 99.5 | 99.5 | 100.0 | 100.0 | 100.0  | 100.0 |
| IN 100            | 62.6                       | 80.7 | 85.6 | 88.8 | 91.7 | 94.7 | 97.1 | 98.4 | 98.5 | 99.0 | 99.5 | 99.5 | 100.0 | 100.0 | 100.0  | 100.0 |
| IN 0              | 62.6                       | 80.7 | 85.6 | 88.8 | 91.7 | 94.7 | 97.1 | 98.4 | 98.5 | 99.0 | 99.5 | 99.5 | 100.0 | 100.0 | 100.0  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 797

ARMED CLIMATOLOGY BRANCH  
USAF ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
257

YOUNGSTOWN MAP OH

73-81

YEARS

APP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS LST

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥.1  |
| NO CEILING      | 29.5                       | 32.7 | 33.1 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 |
| ≥ 20000         | 35.5                       | 41.5 | 41.9 | 42.2 | 42.2 | 42.2 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 | 42.3 |
| ≥ 18000         | 36.8                       | 41.8 | 42.2 | 42.4 | 42.4 | 42.4 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 |
| ≥ 16000         | 36.9                       | 41.9 | 42.3 | 42.5 | 42.5 | 42.5 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 |
| ≥ 14000         | 37.3                       | 42.2 | 42.5 | 42.8 | 42.8 | 42.8 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 |
| ≥ 12000         | 38.4                       | 44.2 | 44.9 | 45.2 | 45.2 | 45.2 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3 |
| ≥ 10000         | 41.4                       | 47.6 | 48.6 | 48.8 | 48.8 | 48.8 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 |
| ≥ 9000          | 41.7                       | 47.8 | 48.9 | 49.2 | 49.2 | 49.2 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 |
| IV 8000         | 43.3                       | 49.8 | 50.9 | 51.3 | 51.3 | 51.3 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 |
| IV 7000         | 43.9                       | 51.8 | 52.2 | 52.6 | 52.6 | 52.6 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 |
| IV 6000         | 44.2                       | 51.1 | 52.4 | 52.8 | 52.8 | 52.8 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| IV 5000         | 44.8                       | 52.1 | 53.6 | 54.0 | 54.0 | 54.0 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 |
| IV 4500         | 45.7                       | 53.3 | 54.8 | 55.2 | 55.2 | 55.3 | 55.5 | 55.5 | 55.5 | 55.5 | 55.5 | 55.5 | 55.5 | 55.5 | 55.5 | 55.5 |
| IV 4000         | 50.1                       | 58.1 | 59.6 | 60.0 | 60.0 | 60.1 | 60.2 | 60.2 | 60.2 | 60.2 | 60.2 | 60.2 | 60.2 | 60.2 | 60.2 | 60.2 |
| IV 3500         | 52.6                       | 61.5 | 63.7 | 63.4 | 63.4 | 63.5 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 |
| IV 3000         | 55.5                       | 65.4 | 67.1 | 67.6 | 67.8 | 68.0 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 |
| IV 2500         | 60.9                       | 71.5 | 73.5 | 74.0 | 74.2 | 74.4 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 |
| IV 2000         | 64.1                       | 76.2 | 78.3 | 79.2 | 79.4 | 79.7 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 |
| IV 1800         | 65.1                       | 77.9 | 80.3 | 81.2 | 81.6 | 81.9 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 |
| IV 1500         | 66.1                       | 79.8 | 82.2 | 83.1 | 83.4 | 84.1 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 | 84.3 |
| IV 1200         | 67.4                       | 81.8 | 85.1 | 86.4 | 87.2 | 88.2 | 88.7 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 89.0 | 89.0 | 89.0 |
| IV 1000         | 67.6                       | 82.7 | 86.3 | 87.7 | 89.0 | 90.0 | 90.6 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.8 | 90.8 | 90.8 |
| IV 900          | 67.9                       | 83.4 | 87.3 | 88.7 | 90.0 | 91.1 | 91.8 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.2 | 92.2 | 92.2 |
| IV 800          | 68.1                       | 84.3 | 88.6 | 90.0 | 91.3 | 92.7 | 93.5 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 93.9 | 94.0 | 94.0 | 94.0 |
| IV 700          | 68.1                       | 84.6 | 89.2 | 91.1 | 92.8 | 94.4 | 95.6 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.1 | 96.1 | 96.1 |
| IV 600          | 68.1                       | 85.1 | 90.0 | 91.8 | 93.6 | 95.1 | 96.7 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 | 97.4 | 97.4 | 97.4 |
| IV 500          | 68.1                       | 85.1 | 90.0 | 91.8 | 93.6 | 95.5 | 97.2 | 97.9 | 97.9 | 97.9 | 98.1 | 98.1 | 98.1 | 98.9 | 98.9 | 98.9 |
| IV 400          | 68.1                       | 85.1 | 90.0 | 91.8 | 93.6 | 95.5 | 97.2 | 98.1 | 98.1 | 98.1 | 98.4 | 98.4 | 98.4 | 99.4 | 99.4 | 99.4 |
| IV 300          | 68.1                       | 85.1 | 90.0 | 92.0 | 93.7 | 95.6 | 97.4 | 98.5 | 98.5 | 98.5 | 98.6 | 98.6 | 98.6 | 99.9 | 99.9 | 99.9 |
| IV 200          | 68.1                       | 85.1 | 90.0 | 92.0 | 93.7 | 95.6 | 97.4 | 98.5 | 98.5 | 98.5 | 98.6 | 98.6 | 98.6 | 99.9 | 99.9 | 99.9 |
| IV 100          | 68.1                       | 85.1 | 90.0 | 92.0 | 93.7 | 95.6 | 97.4 | 98.5 | 98.5 | 98.5 | 98.6 | 98.6 | 98.6 | 99.9 | 99.9 | 99.9 |
| IV 0            | 68.1                       | 85.1 | 90.0 | 92.0 | 93.7 | 95.6 | 97.4 | 98.5 | 98.5 | 98.5 | 98.6 | 98.6 | 98.6 | 99.9 | 99.9 | 99.9 |

TOTAL NUMBER OF OBSERVATIONS 797



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP 04 STATION NAME

73-81

YEARS

APR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (LST)

| CEILING<br>-FEET- | VISIBILITY -STATUTE MILES- |      |      |      |      |      |      |      |       |      |      |      |       |       |       |       |
|-------------------|----------------------------|------|------|------|------|------|------|------|-------|------|------|------|-------|-------|-------|-------|
|                   | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.25 | ≥1   | ≥.75 | ≥.5  | ≥.25  | ≥.16  | ≥.1   | ≥0    |
| NO CEILING        | 31.0                       | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0  | 35.0 | 35.0 | 35.0 | 35.0  | 35.0  | 35.0  | 35.0  |
| ≥ 20000           | 36.3                       | 42.3 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4  | 42.4 | 42.4 | 42.4 | 42.4  | 42.4  | 42.4  | 42.4  |
| IV 18000          | 36.9                       | 42.3 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5 | 42.5  | 42.5 | 42.5 | 42.5 | 42.5  | 42.5  | 42.5  | 42.5  |
| IV 16000          | 36.7                       | 42.4 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7  | 42.7 | 42.7 | 42.7 | 42.7  | 42.7  | 42.7  | 42.7  |
| IV 14000          | 37.6                       | 43.3 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5  | 43.5 | 43.5 | 43.5 | 43.5  | 43.5  | 43.5  | 43.5  |
| IV 12000          | 39.5                       | 44.5 | 44.6 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8 | 44.8  | 44.8 | 44.8 | 44.8 | 44.8  | 44.8  | 44.8  | 44.8  |
| IV 10000          | 40.3                       | 47.1 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6  | 47.6 | 47.6 | 47.6 | 47.6  | 47.6  | 47.6  | 47.6  |
| IV 9000           | 41.4                       | 47.6 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1  | 48.1 | 48.1 | 48.1 | 48.1  | 48.1  | 48.1  | 48.1  |
| IV 8000           | 42.5                       | 49.6 | 50.1 | 50.2 | 50.2 | 50.2 | 50.2 | 50.2 | 50.2  | 50.2 | 50.2 | 50.2 | 50.2  | 50.2  | 50.2  | 50.2  |
| IV 7000           | 43.4                       | 50.9 | 51.4 | 51.6 | 51.6 | 51.7 | 51.7 | 51.7 | 51.7  | 51.7 | 51.7 | 51.7 | 51.7  | 51.7  | 51.7  | 51.7  |
| IV 6000           | 43.9                       | 51.4 | 51.9 | 52.1 | 52.1 | 52.2 | 52.2 | 52.2 | 52.2  | 52.2 | 52.2 | 52.2 | 52.2  | 52.2  | 52.2  | 52.2  |
| IV 5000           | 47.3                       | 55.5 | 56.1 | 56.1 | 56.1 | 56.2 | 56.2 | 56.2 | 56.2  | 56.2 | 56.2 | 56.2 | 56.2  | 56.2  | 56.2  | 56.2  |
| IV 4500           | 49.6                       | 58.8 | 59.3 | 59.5 | 59.5 | 59.6 | 59.6 | 59.6 | 59.6  | 59.6 | 59.6 | 59.6 | 59.6  | 59.6  | 59.6  | 59.6  |
| IV 4000           | 54.1                       | 64.7 | 65.2 | 65.5 | 65.5 | 65.6 | 65.6 | 65.6 | 65.6  | 65.6 | 65.6 | 65.6 | 65.6  | 65.6  | 65.6  | 65.6  |
| IV 3500           | 57.0                       | 68.1 | 69.1 | 69.4 | 69.4 | 69.6 | 69.6 | 69.6 | 69.6  | 69.6 | 69.6 | 69.6 | 69.6  | 69.6  | 69.6  | 69.6  |
| IV 3000           | 60.9                       | 72.9 | 73.6 | 74.2 | 74.2 | 74.7 | 74.7 | 74.8 | 74.8  | 74.8 | 74.8 | 74.8 | 74.8  | 74.8  | 74.8  | 74.8  |
| IV 2500           | 64.1                       | 76.4 | 77.5 | 78.0 | 78.2 | 78.9 | 78.9 | 79.0 | 79.0  | 79.0 | 79.0 | 79.0 | 79.0  | 79.0  | 79.0  | 79.0  |
| IV 2000           | 66.4                       | 80.1 | 81.4 | 82.2 | 82.6 | 83.3 | 83.3 | 83.4 | 83.4  | 83.4 | 83.4 | 83.4 | 83.4  | 83.4  | 83.4  | 83.4  |
| IV 1800           | 65.6                       | 81.2 | 82.6 | 83.8 | 84.3 | 85.1 | 85.1 | 85.2 | 85.2  | 85.3 | 85.3 | 85.3 | 85.3  | 85.3  | 85.3  | 85.3  |
| IV 1500           | 67.5                       | 83.4 | 85.2 | 86.2 | 86.8 | 87.6 | 87.6 | 87.7 | 87.7  | 87.8 | 87.8 | 87.8 | 87.8  | 87.8  | 87.8  | 87.8  |
| IV 1200           | 68.5                       | 86.2 | 88.3 | 89.5 | 90.1 | 91.0 | 91.0 | 91.2 | 91.2  | 91.3 | 91.5 | 91.5 | 91.5  | 91.5  | 91.5  | 91.5  |
| IV 1000           | 68.6                       | 86.7 | 89.1 | 90.6 | 91.5 | 93.0 | 93.2 | 93.5 | 93.5  | 93.6 | 93.7 | 93.7 | 93.7  | 93.7  | 93.7  | 93.7  |
| IV 900            | 69.1                       | 87.1 | 89.5 | 91.1 | 92.2 | 93.9 | 94.1 | 94.4 | 94.4  | 94.5 | 94.6 | 94.6 | 94.6  | 94.6  | 94.6  | 94.6  |
| IV 800            | 67.7                       | 87.2 | 89.6 | 91.2 | 92.5 | 94.5 | 95.0 | 95.2 | 95.2  | 95.4 | 95.5 | 95.5 | 95.5  | 95.5  | 95.5  | 95.5  |
| IV 700            | 69.7                       | 88.1 | 90.5 | 92.2 | 93.6 | 96.0 | 96.6 | 97.0 | 97.0  | 97.1 | 97.2 | 97.2 | 97.2  | 97.2  | 97.2  | 97.2  |
| IV 600            | 69.0                       | 88.2 | 90.6 | 92.3 | 93.7 | 96.5 | 97.1 | 97.5 | 97.5  | 97.7 | 97.9 | 97.9 | 98.0  | 98.0  | 98.0  | 98.0  |
| IV 500            | 69.0                       | 88.2 | 90.6 | 92.3 | 93.7 | 97.1 | 98.0 | 98.4 | 98.4  | 98.7 | 98.9 | 98.9 | 99.0  | 99.0  | 99.0  | 99.0  |
| IV 400            | 69.0                       | 88.2 | 90.7 | 92.7 | 94.1 | 97.6 | 98.5 | 99.0 | 99.0  | 99.5 | 99.6 | 99.6 | 99.7  | 99.7  | 99.7  | 99.7  |
| IV 300            | 69.0                       | 88.2 | 90.7 | 92.7 | 94.1 | 97.6 | 98.6 | 99.1 | 99.1  | 99.6 | 99.7 | 99.7 | 99.9  | 99.9  | 99.9  | 99.9  |
| IV 200            | 69.1                       | 88.2 | 90.7 | 92.7 | 94.1 | 97.6 | 98.7 | 99.2 | 99.2  | 99.7 | 99.9 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 |
| IV 100            | 69.1                       | 88.2 | 90.7 | 92.7 | 94.1 | 97.6 | 98.7 | 99.2 | 99.2  | 99.7 | 99.9 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 |
| IV 0              | 69.1                       | 88.2 | 90.7 | 92.7 | 94.1 | 97.6 | 98.7 | 99.2 | 99.2  | 99.7 | 99.9 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 797

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

APR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1600-2000 HOURS (1)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.7 | ≥2   | ≥1.7 | ≥1.4 | ≥1   | ≥.7  | ≥.5  | ≥.3  | ≥.16 | ≥.1  | ≥0    |
| NO CEILING      | 34.4                     | 30.4 | 34.7 | 38.8 | 38.8 | 30.2 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3  |
| ≥ 20000         | 30.9                     | 45.1 | 45.4 | 45.5 | 45.5 | 45.9 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0  |
| ≥ 18000         | 39.9                     | 45.1 | 45.4 | 45.5 | 45.5 | 45.9 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0  |
| ≥ 16000         | 39.9                     | 45.1 | 45.4 | 45.5 | 45.5 | 45.9 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0 | 46.0  |
| ≥ 14000         | 40.5                     | 45.6 | 45.9 | 46.0 | 45.0 | 46.4 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5  |
| ≥ 12000         | 43.2                     | 48.6 | 48.9 | 49.0 | 49.0 | 49.4 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5 | 49.5  |
| ≥ 10000         | 44.7                     | 50.5 | 51.0 | 51.1 | 51.1 | 51.5 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6  |
| ≥ 9000          | 45.2                     | 51.0 | 51.5 | 51.6 | 51.6 | 52.0 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1  |
| ≥ 8000          | 47.1                     | 53.6 | 54.1 | 54.3 | 54.3 | 54.6 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8  |
| ≥ 7000          | 48.2                     | 55.4 | 55.9 | 56.0 | 56.0 | 56.4 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5  |
| ≥ 6000          | 48.5                     | 56.3 | 56.9 | 57.0 | 57.0 | 57.4 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5  |
| ≥ 5000          | 51.5                     | 60.7 | 61.3 | 61.6 | 61.6 | 61.9 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1  |
| ≥ 4500          | 53.1                     | 63.1 | 63.7 | 64.2 | 64.2 | 64.6 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7 | 64.7  |
| ≥ 4000          | 57.9                     | 69.8 | 71.5 | 71.1 | 71.2 | 71.6 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7  |
| ≥ 3500          | 60.3                     | 72.6 | 73.2 | 74.0 | 74.2 | 74.6 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  |
| ≥ 3000          | 63.1                     | 76.1 | 76.9 | 78.0 | 78.3 | 78.8 | 79.0 | 79.0 | 79.0 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1  |
| ≥ 2500          | 64.8                     | 79.0 | 80.2 | 81.7 | 82.0 | 82.7 | 82.9 | 82.9 | 82.9 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0 | 83.0  |
| ≥ 2000          | 66.3                     | 81.7 | 83.0 | 84.7 | 85.3 | 86.4 | 86.8 | 86.9 | 86.9 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.2  |
| ≥ 1800          | 66.7                     | 82.2 | 83.5 | 85.3 | 85.9 | 87.1 | 87.8 | 87.9 | 87.9 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.2  |
| ≥ 1500          | 67.5                     | 84.0 | 85.7 | 87.8 | 88.4 | 89.6 | 90.3 | 90.5 | 90.5 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.7  |
| ≥ 1200          | 68.7                     | 85.2 | 87.2 | 89.4 | 90.1 | 91.2 | 92.0 | 92.1 | 92.1 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.3  |
| ≥ 1000          | 68.2                     | 86.3 | 88.6 | 91.2 | 92.0 | 93.2 | 94.0 | 94.1 | 94.1 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.3  |
| ≥ 900           | 68.3                     | 86.4 | 88.7 | 91.5 | 92.3 | 93.7 | 94.5 | 94.7 | 94.7 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 95.1  |
| ≥ 800           | 68.3                     | 86.7 | 89.1 | 91.8 | 92.7 | 94.2 | 95.1 | 95.5 | 95.5 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.7  |
| ≥ 700           | 68.5                     | 87.2 | 89.6 | 92.5 | 93.3 | 95.1 | 96.1 | 96.5 | 96.5 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.7  |
| ≥ 600           | 68.5                     | 87.3 | 89.7 | 92.6 | 93.5 | 95.4 | 96.4 | 96.7 | 96.7 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 96.9 | 97.0  |
| ≥ 500           | 68.6                     | 87.4 | 90.1 | 93.1 | 94.1 | 96.1 | 97.1 | 97.5 | 97.5 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.7  |
| ≥ 400           | 68.7                     | 87.8 | 91.5 | 93.6 | 94.6 | 96.7 | 98.0 | 98.5 | 98.5 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 99.0  |
| ≥ 300           | 68.7                     | 87.8 | 90.5 | 93.6 | 94.7 | 97.0 | 98.2 | 98.9 | 98.9 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.7  |
| ≥ 200           | 68.7                     | 87.8 | 91.5 | 93.6 | 94.7 | 97.0 | 98.2 | 98.9 | 98.9 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.7  |
| ≥ 100           | 68.7                     | 87.8 | 91.5 | 93.6 | 94.7 | 97.0 | 98.2 | 98.9 | 98.9 | 99.4 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 100.0 |
| ≥ 0             | 68.7                     | 87.8 | 91.5 | 93.6 | 94.7 | 97.0 | 98.2 | 98.9 | 98.9 | 99.4 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 796

JUNIOR CLIMATOLOGY BRANCH  
ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

APF

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1100-2300  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.2 | ≥1   | ≥.75 | ≥.5  | ≥.25 | ≥.16 | ≥.1  | ≥0   |
| NO CEILING      | 35.2                     | 42.5 | 42.6 | 42.7 | 42.9 | 42.9 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 | 43.0 |
| ≥ 20000         | 41.0                     | 48.5 | 43.2 | 48.3 | 42.4 | 43.4 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 |
| IN 18000        | 41.0                     | 43.0 | 48.2 | 48.3 | 48.4 | 48.4 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 |
| IN 16000        | 41.0                     | 43.0 | 43.2 | 48.3 | 48.4 | 48.4 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 | 48.5 |
| IN 14000        | 41.2                     | 44.4 | 48.5 | 48.7 | 48.8 | 48.8 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 | 48.9 |
| IN 12000        | 42.5                     | 49.7 | 49.8 | 49.9 | 50.1 | 50.1 | 50.2 | 50.2 | 50.2 | 50.2 | 50.2 | 50.2 | 50.2 | 50.2 | 50.2 | 50.2 |
| IN 10000        | 44.5                     | 52.0 | 52.1 | 52.2 | 52.3 | 52.3 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 |
| IN 9000         | 44.0                     | 52.3 | 52.5 | 52.6 | 52.7 | 52.7 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 |
| IN 8000         | 47.4                     | 55.0 | 55.1 | 55.4 | 55.6 | 55.6 | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 | 55.7 |
| IN 7000         | 48.8                     | 57.6 | 57.8 | 58.0 | 58.3 | 58.3 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 | 58.4 |
| IN 6000         | 49.3                     | 53.5 | 58.8 | 59.1 | 59.4 | 59.4 | 59.5 | 59.5 | 59.5 | 59.5 | 59.5 | 59.5 | 59.5 | 59.5 | 59.5 | 59.5 |
| IN 5000         | 52.1                     | 62.7 | 63.2 | 64.1 | 64.3 | 64.3 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 |
| IN 4500         | 54.5                     | 65.4 | 66.0 | 67.0 | 67.2 | 67.2 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 |
| IN 4000         | 57.8                     | 71.4 | 72.4 | 73.5 | 73.9 | 73.9 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 | 74.0 |
| IN 3500         | 58.4                     | 72.6 | 74.4 | 75.5 | 75.9 | 76.3 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 |
| IN 3000         | 61.4                     | 76.7 | 78.6 | 81.1 | 80.5 | 80.6 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 |
| IN 2500         | 63.2                     | 79.7 | 81.7 | 83.5 | 84.0 | 84.1 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 |
| IN 2000         | 64.8                     | 82.8 | 85.1 | 87.0 | 87.6 | 87.8 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 |
| IN 1800         | 65.1                     | 83.6 | 86.1 | 88.0 | 89.7 | 88.8 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 |
| IN 1500         | 65.2                     | 84.2 | 86.8 | 88.8 | 89.4 | 89.5 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 | 89.8 |
| IN 1200         | 65.3                     | 85.0 | 87.5 | 90.0 | 90.7 | 90.8 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 |
| IN 1000         | 65.3                     | 85.8 | 88.4 | 91.9 | 91.6 | 91.8 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 |
| IN 900          | 65.3                     | 86.0 | 89.0 | 91.0 | 92.2 | 92.4 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 |
| IN 800          | 65.4                     | 86.6 | 89.8 | 92.4 | 93.2 | 93.4 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 |
| IN 700          | 65.6                     | 87.0 | 91.4 | 93.2 | 93.9 | 94.2 | 94.8 | 94.8 | 94.8 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 |
| IN 600          | 65.6                     | 87.4 | 90.9 | 93.9 | 95.0 | 95.2 | 95.8 | 95.8 | 95.8 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 |
| IN 500          | 65.8                     | 87.8 | 91.3 | 94.7 | 95.8 | 96.1 | 96.7 | 96.7 | 96.7 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 |
| IN 400          | 65.8                     | 87.9 | 91.8 | 95.7 | 97.1 | 97.4 | 98.4 | 98.6 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 |
| IN 300          | 65.8                     | 87.9 | 91.8 | 95.8 | 97.2 | 97.5 | 98.5 | 98.7 | 98.7 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 |
| IN 200          | 65.8                     | 87.9 | 91.8 | 95.8 | 97.2 | 97.6 | 98.6 | 99.0 | 99.0 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 |
| IN 100          | 65.8                     | 87.9 | 91.8 | 95.8 | 97.2 | 97.6 | 98.6 | 99.0 | 99.0 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 |
| IN 0            | 66.0                     | 88.0 | 91.8 | 96.0 | 97.4 | 97.7 | 98.7 | 99.1 | 99.1 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 |

TOTAL NUMBER OF OBSERVATIONS 793

CLIMATE CLIMATOLOGY BRANCH  
WAFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION WOUNSTOWN MAP OH STATION NAME

73-81

YEARS

APR  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥0.5 | ≥0.4 | ≥0.3 | ≥0.2 | ≥0.15 | ≥0.1 | ≥0   |
| NO CEILING      | 32.1                       | 36.9 | 37.7 | 37.7 | 37.9 | 38.0 | 38.1 | 38.3 | 38.3 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5  | 38.5 | 38.5 |
| ≥20000          | 37.1                       | 43.1 | 43.6 | 44.0 | 44.3 | 44.4 | 44.5 | 44.6 | 44.6 | 44.8 | 44.8 | 44.8 | 44.8 | 44.9 | 44.9  | 44.9 | 44.9 |
| ≥18000          | 37.1                       | 43.1 | 43.6 | 44.1 | 44.3 | 44.4 | 44.5 | 44.7 | 44.7 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9  | 44.9 | 44.9 |
| ≥16000          | 37.2                       | 43.1 | 43.7 | 44.1 | 44.3 | 44.5 | 44.6 | 44.7 | 44.7 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9  | 44.9 | 44.9 |
| ≥14000          | 37.5                       | 43.5 | 44.1 | 44.5 | 44.8 | 44.9 | 45.0 | 45.1 | 45.1 | 45.3 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4  | 45.4 | 45.4 |
| ≥12000          | 38.3                       | 45.1 | 45.6 | 46.1 | 46.4 | 46.5 | 46.6 | 46.7 | 46.7 | 46.9 | 46.9 | 46.9 | 46.9 | 47.0 | 47.0  | 47.0 | 47.0 |
| ≥10000          | 41.1                       | 47.8 | 48.6 | 49.0 | 49.3 | 49.4 | 49.5 | 49.7 | 49.7 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9  | 49.9 | 49.9 |
| ≥9000           | 41.6                       | 48.3 | 49.1 | 49.6 | 49.9 | 50.0 | 50.1 | 50.2 | 50.2 | 50.4 | 50.4 | 50.4 | 50.4 | 50.5 | 50.5  | 50.5 | 50.5 |
| ≥8000           | 43.1                       | 50.5 | 51.3 | 51.9 | 52.2 | 52.3 | 52.4 | 52.5 | 52.5 | 52.7 | 52.7 | 52.7 | 52.7 | 52.8 | 52.8  | 52.8 | 52.8 |
| ≥7000           | 43.9                       | 51.9 | 52.8 | 53.4 | 53.7 | 53.9 | 54.0 | 54.1 | 54.1 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3  | 54.3 | 54.3 |
| ≥6000           | 44.4                       | 52.6 | 53.6 | 54.3 | 54.6 | 54.8 | 54.9 | 55.1 | 55.1 | 55.2 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3  | 55.3 | 55.3 |
| ≥5000           | 47.1                       | 56.3 | 57.5 | 58.3 | 58.7 | 58.9 | 59.0 | 59.1 | 59.1 | 59.3 | 59.3 | 59.3 | 59.3 | 59.4 | 59.4  | 59.4 | 59.4 |
| ≥4500           | 48.7                       | 58.5 | 59.7 | 60.6 | 61.0 | 61.2 | 61.3 | 61.5 | 61.5 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7 | 61.7  | 61.7 | 61.7 |
| ≥4000           | 52.7                       | 63.0 | 64.4 | 65.5 | 66.0 | 66.1 | 66.3 | 66.4 | 66.4 | 66.6 | 66.6 | 66.6 | 66.6 | 66.7 | 66.7  | 66.7 | 66.7 |
| ≥3500           | 53.8                       | 65.3 | 66.9 | 68.1 | 68.6 | 68.8 | 68.9 | 69.1 | 69.1 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3  | 69.3 | 69.3 |
| ≥3000           | 56.4                       | 69.1 | 70.9 | 72.3 | 72.8 | 73.1 | 73.3 | 73.4 | 73.4 | 73.6 | 73.6 | 73.6 | 73.6 | 73.7 | 73.7  | 73.7 | 73.7 |
| ≥2500           | 57.7                       | 72.7 | 74.8 | 76.3 | 76.9 | 77.3 | 77.6 | 77.7 | 77.7 | 77.9 | 78.0 | 78.0 | 78.0 | 78.0 | 78.0  | 78.0 | 78.0 |
| ≥2000           | 61.3                       | 76.5 | 78.7 | 80.4 | 81.1 | 81.6 | 81.9 | 82.1 | 82.1 | 82.3 | 82.3 | 82.3 | 82.3 | 82.4 | 82.4  | 82.4 | 82.4 |
| ≥1800           | 62.0                       | 77.7 | 80.6 | 81.8 | 82.7 | 83.2 | 83.6 | 83.7 | 83.7 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0 | 84.0  | 84.0 | 84.0 |
| ≥1500           | 62.8                       | 79.4 | 81.7 | 83.7 | 84.5 | 85.1 | 85.4 | 85.6 | 85.6 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9 | 85.9  | 85.9 | 86.0 |
| ≥1200           | 63.7                       | 81.3 | 84.0 | 86.1 | 87.1 | 87.8 | 88.3 | 88.5 | 88.5 | 88.8 | 88.8 | 88.8 | 88.8 | 88.9 | 88.9  | 88.9 | 88.9 |
| ≥1000           | 64.1                       | 82.5 | 85.3 | 87.7 | 88.9 | 89.7 | 90.3 | 90.6 | 90.6 | 90.9 | 90.9 | 90.9 | 90.9 | 91.0 | 91.0  | 91.0 | 91.0 |
| ≥900            | 64.3                       | 83.1 | 86.1 | 88.6 | 89.9 | 90.8 | 91.5 | 91.8 | 91.8 | 92.1 | 92.1 | 92.1 | 92.1 | 92.2 | 92.2  | 92.2 | 92.2 |
| ≥800            | 64.5                       | 83.8 | 86.9 | 89.5 | 91.0 | 92.0 | 92.8 | 93.1 | 93.1 | 93.5 | 93.5 | 93.5 | 93.5 | 93.6 | 93.6  | 93.6 | 93.6 |
| ≥700            | 64.6                       | 84.4 | 87.6 | 90.4 | 92.0 | 93.2 | 94.1 | 94.5 | 94.5 | 94.8 | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 95.0 |
| ≥600            | 64.5                       | 84.7 | 88.1 | 91.3 | 92.7 | 94.0 | 95.0 | 95.5 | 95.5 | 95.8 | 96.0 | 96.0 | 96.0 | 96.1 | 96.1  | 96.1 | 96.1 |
| ≥500            | 64.7                       | 84.9 | 88.3 | 91.4 | 93.2 | 94.7 | 95.8 | 96.4 | 96.5 | 96.9 | 97.0 | 97.0 | 97.0 | 97.2 | 97.2  | 97.2 | 97.2 |
| ≥400            | 64.7                       | 85.1 | 88.6 | 92.3 | 93.9 | 95.5 | 96.9 | 97.7 | 97.7 | 98.2 | 98.4 | 98.4 | 98.4 | 98.6 | 98.6  | 98.6 | 98.6 |
| ≥300            | 64.7                       | 85.1 | 88.7 | 92.1 | 94.0 | 95.8 | 97.3 | 98.2 | 98.2 | 98.8 | 99.1 | 99.1 | 99.1 | 99.3 | 99.3  | 99.3 | 99.4 |
| ≥200            | 64.7                       | 85.1 | 88.7 | 92.1 | 94.0 | 95.8 | 97.3 | 98.3 | 98.3 | 99.0 | 99.3 | 99.3 | 99.3 | 99.6 | 99.6  | 99.6 | 99.7 |
| ≥100            | 64.7                       | 85.1 | 88.7 | 92.1 | 94.0 | 95.8 | 97.3 | 98.3 | 98.3 | 99.0 | 99.3 | 99.3 | 99.3 | 99.7 | 99.7  | 99.8 | 99.8 |
| ≥0              | 64.7                       | 85.1 | 88.7 | 92.1 | 94.0 | 95.8 | 97.3 | 98.3 | 98.3 | 99.0 | 99.4 | 99.4 | 99.4 | 99.7 | 99.7  | 99.8 | 99.8 |

TOTAL NUMBER OF OBSERVATIONS 6355

GLOBAL CLIMATOLOGY BRANCH  
 AFETAC  
 4 WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

25  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

MAY  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

000-7200  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |      |      |       |       |      |       |        |      |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|------|------|-------|-------|------|-------|--------|------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1  | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ 0  |
| NO CEILING      | 37.4                       | 46.8 | 47.9 | 50.4 | 51.0 | 51.2  | 51.3 | 51.3  | 51.3 | 51.3 | 51.3  | 51.3  | 51.3 | 51.3  | 51.3   | 51.3 |
| ≥ 20000         | 39.1                       | 48.7 | 50.5 | 53.5 | 54.2 | 54.3  | 54.4 | 54.5  | 54.5 | 54.5 | 54.5  | 54.5  | 54.5 | 54.5  | 54.5   | 54.5 |
| IV 18000        | 39.1                       | 48.7 | 50.5 | 53.5 | 54.2 | 54.3  | 54.4 | 54.5  | 54.5 | 54.5 | 54.5  | 54.5  | 54.5 | 54.5  | 54.5   | 54.5 |
| IV 16000        | 39.1                       | 48.7 | 50.5 | 53.5 | 54.2 | 54.3  | 54.4 | 54.5  | 54.5 | 54.5 | 54.5  | 54.5  | 54.5 | 54.5  | 54.5   | 54.5 |
| IV 14000        | 39.1                       | 48.7 | 50.5 | 53.5 | 54.2 | 54.3  | 54.4 | 54.5  | 54.5 | 54.5 | 54.5  | 54.5  | 54.5 | 54.5  | 54.5   | 54.5 |
| IV 12000        | 40.3                       | 50.8 | 52.7 | 55.8 | 56.5 | 56.6  | 56.8 | 56.9  | 56.9 | 56.9 | 56.9  | 56.9  | 56.9 | 56.9  | 56.9   | 56.9 |
| IV 10000        | 42.5                       | 53.5 | 55.5 | 58.6 | 59.2 | 59.4  | 59.7 | 59.9  | 59.9 | 59.9 | 59.9  | 59.9  | 59.9 | 59.9  | 59.9   | 59.9 |
| IV 9000         | 42.5                       | 54.4 | 56.4 | 59.5 | 60.1 | 60.3  | 60.6 | 60.8  | 60.8 | 60.8 | 60.8  | 60.8  | 60.8 | 60.8  | 60.8   | 60.8 |
| IV 8000         | 44.3                       | 57.1 | 59.2 | 62.5 | 63.1 | 63.2  | 63.8 | 63.9  | 63.9 | 63.9 | 63.9  | 63.9  | 63.9 | 63.9  | 63.9   | 63.9 |
| IV 7000         | 44.3                       | 58.2 | 60.3 | 63.8 | 64.5 | 64.7  | 65.2 | 65.3  | 65.3 | 65.3 | 65.3  | 65.3  | 65.3 | 65.3  | 65.3   | 65.3 |
| IV 6000         | 45.2                       | 58.7 | 60.9 | 64.5 | 65.3 | 65.5  | 66.0 | 66.1  | 66.1 | 66.1 | 66.1  | 66.1  | 66.1 | 66.1  | 66.1   | 66.1 |
| IV 5000         | 47.5                       | 62.9 | 65.7 | 69.9 | 70.9 | 71.0  | 71.9 | 72.1  | 72.1 | 72.1 | 72.1  | 72.1  | 72.1 | 72.1  | 72.1   | 72.1 |
| IV 4500         | 48.3                       | 64.4 | 67.4 | 71.8 | 72.9 | 73.1  | 74.0 | 74.2  | 74.2 | 74.2 | 74.2  | 74.2  | 74.2 | 74.2  | 74.2   | 74.2 |
| IV 4000         | 48.4                       | 67.4 | 71.3 | 76.0 | 77.5 | 77.8  | 78.7 | 78.8  | 78.8 | 78.8 | 78.8  | 78.8  | 78.8 | 78.8  | 78.8   | 78.8 |
| IV 3500         | 50.6                       | 68.7 | 72.8 | 77.3 | 78.8 | 79.1  | 80.0 | 80.1  | 80.1 | 80.1 | 80.1  | 80.1  | 80.1 | 80.1  | 80.1   | 80.1 |
| IV 3000         | 51.6                       | 71.3 | 74.3 | 79.4 | 81.0 | 81.4  | 82.3 | 82.5  | 82.5 | 82.5 | 82.5  | 82.5  | 82.5 | 82.5  | 82.5   | 82.5 |
| IV 2500         | 53.1                       | 72.5 | 76.5 | 81.7 | 83.4 | 83.9  | 84.8 | 84.9  | 84.9 | 84.9 | 85.1  | 85.1  | 85.2 | 85.2  | 85.2   | 85.2 |
| IV 2000         | 53.1                       | 72.7 | 77.1 | 82.5 | 84.2 | 84.7  | 85.6 | 85.7  | 85.7 | 85.7 | 85.8  | 85.8  | 86.0 | 86.0  | 86.0   | 86.0 |
| IV 1800         | 53.2                       | 73.1 | 77.7 | 83.1 | 84.9 | 85.6  | 86.5 | 86.6  | 86.6 | 86.6 | 86.8  | 86.8  | 86.9 | 86.9  | 86.9   | 86.9 |
| IV 1500         | 53.2                       | 73.2 | 77.8 | 83.5 | 85.3 | 86.0  | 86.9 | 87.0  | 87.0 | 87.0 | 87.1  | 87.1  | 87.4 | 87.4  | 87.4   | 87.4 |
| IV 1200         | 53.5                       | 74.0 | 78.7 | 84.7 | 86.5 | 87.5  | 88.4 | 88.8  | 88.8 | 88.8 | 89.1  | 89.1  | 89.5 | 89.5  | 89.5   | 89.5 |
| IV 1000         | 53.5                       | 74.4 | 79.4 | 85.5 | 87.4 | 88.4  | 89.4 | 89.7  | 89.7 | 89.7 | 90.0  | 90.0  | 90.4 | 90.4  | 90.4   | 90.4 |
| IV 900          | 53.5                       | 74.4 | 79.4 | 85.5 | 87.4 | 88.6  | 89.5 | 89.9  | 89.9 | 89.9 | 90.1  | 90.1  | 90.5 | 90.5  | 90.5   | 90.5 |
| IV 800          | 53.5                       | 74.7 | 79.6 | 85.8 | 87.8 | 89.0  | 89.9 | 90.3  | 90.3 | 90.3 | 90.5  | 90.5  | 90.9 | 90.9  | 90.9   | 90.9 |
| IV 700          | 53.5                       | 75.2 | 80.3 | 86.6 | 88.7 | 89.9  | 90.9 | 91.8  | 91.8 | 91.8 | 92.1  | 92.1  | 92.5 | 92.5  | 92.5   | 92.5 |
| IV 600          | 54.0                       | 75.6 | 81.8 | 87.5 | 89.6 | 90.8  | 91.8 | 92.7  | 92.7 | 92.7 | 93.0  | 93.0  | 93.4 | 93.4  | 93.4   | 93.4 |
| IV 500          | 54.2                       | 76.5 | 81.9 | 89.0 | 91.0 | 92.2  | 93.2 | 94.2  | 94.2 | 94.2 | 94.5  | 94.5  | 94.9 | 94.9  | 94.9   | 94.9 |
| IV 400          | 54.2                       | 76.5 | 81.9 | 89.4 | 91.9 | 93.1  | 94.5 | 95.5  | 95.5 | 95.5 | 95.8  | 95.8  | 96.2 | 96.2  | 96.4   | 96.4 |
| IV 300          | 54.2                       | 76.6 | 82.1 | 89.5 | 92.2 | 93.6  | 96.1 | 97.0  | 97.0 | 97.0 | 97.4  | 97.4  | 97.8 | 97.8  | 97.9   | 97.9 |
| IV 200          | 54.2                       | 76.9 | 82.2 | 89.6 | 92.3 | 93.8  | 96.4 | 97.5  | 97.5 | 97.5 | 97.8  | 97.8  | 98.3 | 98.3  | 98.7   | 98.7 |
| IV 100          | 54.2                       | 76.8 | 82.2 | 89.6 | 92.3 | 93.9  | 96.5 | 97.7  | 97.7 | 97.7 | 97.9  | 97.9  | 98.4 | 98.4  | 98.8   | 98.8 |
| IV 0            | 54.2                       | 76.8 | 82.2 | 89.6 | 92.3 | 93.9  | 96.5 | 97.7  | 97.7 | 97.7 | 97.9  | 97.9  | 98.4 | 98.4  | 98.8   | 98.8 |

TOTAL NUMBER OF OBSERVATIONS 77

CLIMATE CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

330-3500  
MO. 13

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |      |       |        |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|-------|------|-------|--------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥0.5 | ≥0.25 | ≥0.15 | ≥0.1 | ≥0.05 | ≥0.025 | ≥0.01 |
| NO CEILING      | 31.5                     | 41.5 | 47.8 | 45.4 | 45.8 | 46.5 | 47.3 | 47.3 | 47.5 | 47.8 | 47.8  | 47.8  | 48.0 | 48.1  | 48.1   | 48.1  |
| ≥ 20000         | 31.5                     | 42.5 | 45.9 | 49.5 | 40.9 | 50.7 | 51.6 | 51.9 | 52.0 | 52.4 | 52.4  | 52.4  | 52.4 | 52.5  | 52.5   | 52.7  |
| ≥ 18000         | 31.9                     | 42.5 | 45.9 | 49.5 | 49.9 | 51.7 | 51.6 | 51.9 | 52.0 | 52.4 | 52.4  | 52.4  | 52.4 | 52.5  | 52.5   | 52.7  |
| ≥ 16000         | 31.9                     | 42.5 | 45.9 | 49.5 | 49.9 | 51.7 | 51.6 | 51.9 | 52.0 | 52.4 | 52.4  | 52.4  | 52.4 | 52.5  | 52.5   | 52.7  |
| ≥ 14000         | 32.3                     | 43.1 | 46.4 | 51.1 | 50.5 | 51.2 | 52.2 | 52.4 | 52.5 | 52.9 | 52.9  | 52.9  | 52.9 | 53.1  | 53.1   | 53.2  |
| ≥ 12000         | 33.2                     | 44.1 | 47.6 | 51.2 | 51.6 | 52.4 | 53.3 | 53.6 | 53.7 | 54.1 | 54.1  | 54.1  | 54.2 | 54.2  | 54.4   | 54.4  |
| ≥ 10000         | 34.1                     | 46.3 | 49.8 | 53.5 | 54.0 | 54.8 | 55.8 | 56.1 | 56.2 | 56.6 | 56.6  | 56.6  | 56.7 | 56.7  | 56.8   | 56.8  |
| ≥ 9000          | 35.3                     | 47.1 | 50.6 | 54.5 | 55.0 | 55.8 | 56.8 | 57.2 | 57.4 | 57.8 | 57.8  | 57.8  | 57.9 | 57.9  | 58.0   | 58.0  |
| ≥ 8000          | 36.4                     | 49.7 | 53.5 | 57.4 | 58.0 | 58.8 | 60.0 | 60.4 | 60.5 | 60.9 | 60.9  | 60.9  | 61.1 | 61.1  | 61.3   | 61.3  |
| ≥ 7000          | 36.4                     | 50.2 | 54.2 | 58.1 | 58.8 | 59.6 | 60.8 | 61.1 | 61.3 | 61.7 | 61.7  | 61.7  | 61.9 | 61.9  | 62.1   | 62.1  |
| ≥ 6000          | 37.2                     | 51.1 | 55.1 | 59.1 | 59.7 | 60.5 | 61.8 | 62.2 | 62.3 | 62.7 | 62.7  | 62.7  | 63.0 | 63.0  | 63.1   | 63.1  |
| ≥ 5000          | 41.2                     | 55.4 | 59.5 | 64.3 | 64.9 | 65.7 | 67.0 | 67.4 | 67.5 | 68.1 | 68.1  | 68.1  | 68.3 | 68.3  | 68.4   | 68.4  |
| ≥ 4500          | 41.6                     | 57.2 | 61.3 | 66.1 | 66.8 | 67.7 | 69.2 | 69.8 | 69.9 | 70.4 | 70.4  | 70.4  | 70.7 | 70.7  | 70.9   | 70.9  |
| ≥ 4000          | 43.2                     | 61.3 | 65.1 | 70.0 | 70.9 | 72.1 | 73.9 | 74.4 | 74.6 | 75.1 | 75.2  | 75.2  | 75.5 | 75.5  | 75.6   | 75.6  |
| ≥ 3500          | 45.1                     | 63.0 | 67.4 | 72.5 | 73.4 | 74.7 | 76.5 | 77.1 | 77.2 | 77.7 | 77.7  | 77.8  | 77.8 | 78.1  | 78.2   | 78.2  |
| ≥ 3000          | 45.6                     | 64.4 | 69.2 | 74.6 | 75.5 | 76.8 | 78.6 | 79.1 | 79.3 | 79.8 | 79.8  | 79.9  | 79.9 | 80.2  | 80.3   | 80.4  |
| ≥ 2500          | 46.5                     | 65.8 | 70.7 | 76.0 | 76.9 | 78.4 | 80.2 | 80.7 | 80.8 | 81.4 | 81.5  | 81.5  | 81.7 | 81.7  | 81.9   | 82.0  |
| ≥ 2000          | 46.8                     | 66.4 | 71.2 | 76.7 | 77.7 | 79.1 | 81.2 | 81.9 | 82.0 | 82.5 | 82.7  | 82.7  | 82.9 | 82.9  | 83.1   | 83.2  |
| ≥ 1800          | 46.9                     | 66.8 | 71.5 | 77.1 | 78.1 | 79.5 | 81.6 | 82.4 | 82.5 | 83.1 | 83.2  | 83.2  | 83.4 | 83.4  | 83.6   | 83.7  |
| ≥ 1500          | 47.2                     | 67.0 | 71.6 | 77.3 | 78.4 | 79.8 | 81.9 | 82.7 | 82.8 | 83.3 | 83.4  | 83.4  | 83.7 | 83.7  | 83.8   | 84.0  |
| ≥ 1200          | 47.2                     | 67.3 | 72.2 | 78.0 | 79.0 | 81.1 | 83.3 | 84.2 | 84.4 | 84.9 | 85.1  | 85.1  | 85.4 | 85.4  | 85.5   | 85.7  |
| ≥ 1000          | 47.3                     | 67.8 | 73.1 | 79.0 | 80.1 | 82.3 | 84.5 | 85.4 | 85.5 | 86.0 | 86.3  | 86.3  | 86.6 | 86.6  | 86.7   | 86.8  |
| ≥ 900           | 47.3                     | 67.9 | 73.1 | 79.3 | 81.3 | 82.5 | 84.7 | 85.7 | 85.8 | 86.3 | 86.6  | 86.6  | 86.8 | 86.8  | 87.0   | 87.1  |
| ≥ 800           | 47.6                     | 68.3 | 73.7 | 81.1 | 81.1 | 83.4 | 85.7 | 86.6 | 86.7 | 87.2 | 87.5  | 87.5  | 87.7 | 87.7  | 87.9   | 88.0  |
| ≥ 700           | 47.6                     | 68.6 | 74.1 | 81.6 | 81.6 | 84.1 | 86.4 | 87.6 | 87.7 | 88.3 | 88.5  | 88.5  | 88.8 | 88.8  | 88.9   | 89.0  |
| ≥ 600           | 47.6                     | 68.7 | 74.4 | 81.2 | 82.3 | 84.7 | 87.1 | 88.4 | 88.5 | 89.0 | 89.3  | 89.3  | 89.6 | 89.6  | 89.7   | 89.8  |
| ≥ 500           | 47.6                     | 69.1 | 74.8 | 81.9 | 82.9 | 85.4 | 87.7 | 89.2 | 89.3 | 89.8 | 90.1  | 90.1  | 90.4 | 90.4  | 90.5   | 90.6  |
| ≥ 400           | 47.6                     | 69.2 | 75.2 | 83.2 | 84.7 | 87.5 | 90.2 | 92.2 | 92.3 | 93.0 | 93.2  | 93.2  | 93.6 | 93.6  | 93.7   | 93.9  |
| ≥ 300           | 47.6                     | 69.4 | 75.4 | 83.7 | 85.4 | 88.9 | 92.0 | 94.1 | 94.4 | 95.2 | 95.4  | 95.4  | 95.8 | 95.8  | 96.1   | 96.2  |
| ≥ 200           | 47.6                     | 69.4 | 75.4 | 83.7 | 87.4 | 88.9 | 92.3 | 94.7 | 94.9 | 96.2 | 96.6  | 96.6  | 97.1 | 97.1  | 97.5   | 97.6  |
| ≥ 100           | 47.6                     | 69.4 | 75.4 | 83.8 | 85.5 | 89.0 | 92.4 | 94.9 | 95.2 | 96.7 | 97.4  | 97.4  | 98.1 | 98.0  | 98.6   | 99.0  |
| ≥ 0             | 47.6                     | 69.4 | 75.4 | 83.8 | 85.5 | 89.0 | 92.4 | 94.9 | 95.2 | 96.7 | 97.4  | 97.4  | 98.0 | 98.0  | 98.7   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 767

AD-A116 509 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
YOUNGSTOWN MAP, OHIO. REVISED UNIFORM SUMMARY OF SURFACE WEATHER--ETC (1)  
MAY 82

UNCLASSIFIED USAFETAC/DS-82/034

**SB1-AD-E850 193**

NL

30.5  
INSUR

FEDERAL CLIMATOLOGY BRANCH  
AF ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

25  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

MAY  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

6500-6800  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥.5  | ≥.25 | ≥.15 | ≥.1  | ≥.05 | ≥.025 | ≥0    |
| NO CEILING      | 23.1                     | 31.2 | 34.3 | 37.5 | 38.6 | 40.2 | 41.3 | 41.6 | 41.6 | 41.7 | 41.9 | 41.9 | 41.9 | 41.9 | 42.0  | 42.0  |
| ≥ 20000         | 24.0                     | 35.8 | 37.2 | 43.4 | 44.5 | 46.5 | 48.0 | 48.4 | 48.4 | 48.7 | 49.0 | 49.0 | 49.0 | 49.0 | 49.1  | 49.1  |
| ≥ 18000         | 25.1                     | 36.0 | 39.5 | 43.6 | 44.7 | 46.8 | 48.2 | 48.6 | 48.6 | 49.0 | 49.2 | 49.2 | 49.2 | 49.2 | 49.3  | 49.3  |
| ≥ 16000         | 25.1                     | 36.0 | 39.5 | 43.6 | 44.7 | 46.8 | 48.2 | 48.6 | 48.6 | 49.0 | 49.2 | 49.2 | 49.2 | 49.2 | 49.3  | 49.3  |
| ≥ 14000         | 25.2                     | 36.2 | 39.7 | 43.9 | 45.1 | 47.1 | 48.7 | 49.1 | 49.1 | 49.5 | 49.7 | 49.7 | 49.7 | 49.7 | 49.8  | 49.8  |
| ≥ 12000         | 25.0                     | 37.5 | 41.1 | 45.3 | 46.5 | 48.7 | 50.3 | 50.7 | 50.7 | 51.0 | 51.3 | 51.3 | 51.3 | 51.3 | 51.4  | 51.4  |
| ≥ 10000         | 26.3                     | 40.7 | 44.5 | 48.8 | 50.1 | 52.5 | 54.1 | 54.4 | 54.4 | 54.8 | 55.0 | 55.0 | 55.0 | 55.0 | 55.2  | 55.2  |
| ≥ 9000          | 29.7                     | 41.2 | 45.0 | 49.3 | 50.5 | 53.2 | 54.8 | 55.3 | 55.3 | 55.7 | 55.9 | 55.9 | 55.9 | 55.9 | 56.0  | 56.0  |
| ≥ 8000          | 29.3                     | 42.8 | 46.5 | 51.0 | 52.2 | 55.3 | 57.1 | 57.6 | 57.6 | 58.1 | 58.4 | 58.4 | 58.4 | 58.4 | 58.6  | 58.6  |
| ≥ 7000          | 29.9                     | 43.4 | 47.3 | 51.8 | 53.0 | 56.3 | 58.1 | 58.6 | 58.6 | 59.1 | 59.4 | 59.4 | 59.4 | 59.4 | 59.5  | 59.5  |
| ≥ 6000          | 31.4                     | 44.8 | 48.7 | 53.3 | 54.6 | 58.0 | 59.8 | 60.3 | 60.3 | 60.8 | 61.1 | 61.1 | 61.1 | 61.1 | 61.2  | 61.2  |
| ≥ 5000          | 32.1                     | 47.6 | 51.6 | 56.4 | 57.6 | 61.1 | 63.3 | 63.8 | 63.8 | 64.5 | 65.0 | 65.0 | 65.0 | 65.0 | 65.1  | 65.1  |
| ≥ 4500          | 32.7                     | 49.1 | 53.1 | 58.1 | 59.3 | 63.3 | 65.5 | 66.0 | 66.0 | 66.7 | 67.2 | 67.2 | 67.2 | 67.2 | 67.3  | 67.3  |
| ≥ 4000          | 33.3                     | 51.2 | 55.4 | 60.8 | 62.3 | 66.6 | 68.8 | 69.4 | 69.4 | 70.2 | 70.8 | 70.8 | 70.8 | 70.8 | 71.0  | 71.0  |
| ≥ 3500          | 35.1                     | 52.5 | 56.9 | 62.2 | 63.9 | 68.2 | 71.5 | 71.1 | 71.1 | 72.1 | 72.8 | 72.8 | 72.8 | 72.8 | 72.9  | 72.9  |
| ≥ 3000          | 35.5                     | 53.5 | 57.9 | 63.3 | 65.0 | 69.4 | 72.1 | 72.7 | 72.7 | 73.6 | 74.4 | 74.4 | 74.4 | 74.4 | 74.5  | 74.5  |
| ≥ 2500          | 36.3                     | 54.9 | 59.3 | 64.8 | 66.5 | 71.0 | 73.6 | 74.2 | 74.2 | 75.2 | 75.9 | 75.9 | 75.9 | 75.9 | 76.1  | 76.1  |
| ≥ 2000          | 36.7                     | 56.7 | 61.1 | 66.6 | 68.4 | 73.1 | 75.8 | 76.5 | 76.4 | 77.4 | 78.1 | 78.1 | 78.1 | 78.1 | 78.3  | 78.3  |
| ≥ 1800          | 38.3                     | 57.6 | 62.1 | 67.6 | 69.4 | 74.1 | 76.9 | 77.5 | 77.5 | 78.5 | 79.2 | 79.2 | 79.2 | 79.2 | 79.3  | 79.3  |
| ≥ 1500          | 38.9                     | 58.4 | 62.9 | 68.5 | 70.4 | 75.1 | 77.9 | 78.5 | 78.5 | 79.5 | 80.2 | 80.2 | 80.2 | 80.2 | 80.3  | 80.3  |
| ≥ 1200          | 40.0                     | 59.7 | 64.3 | 70.1 | 71.9 | 77.0 | 79.8 | 80.8 | 80.8 | 81.9 | 82.6 | 82.6 | 82.6 | 82.6 | 82.7  | 82.7  |
| ≥ 1000          | 40.5                     | 60.6 | 65.5 | 71.3 | 73.1 | 78.4 | 81.5 | 82.5 | 82.5 | 83.7 | 84.4 | 84.4 | 84.4 | 84.4 | 84.6  | 84.6  |
| ≥ 900           | 40.8                     | 61.4 | 66.5 | 72.3 | 74.4 | 79.7 | 83.0 | 84.1 | 84.1 | 85.3 | 86.3 | 86.3 | 86.3 | 86.3 | 86.4  | 86.4  |
| ≥ 800           | 41.9                     | 61.7 | 66.8 | 72.8 | 74.8 | 80.4 | 83.8 | 85.1 | 85.1 | 86.3 | 87.2 | 87.2 | 87.2 | 87.2 | 87.4  | 87.4  |
| ≥ 700           | 43.0                     | 62.6 | 68.1 | 74.1 | 76.2 | 82.4 | 85.8 | 87.1 | 87.1 | 88.5 | 89.4 | 89.4 | 89.4 | 89.4 | 89.6  | 89.6  |
| ≥ 600           | 43.7                     | 62.8 | 68.3 | 74.6 | 76.8 | 83.4 | 87.1 | 88.5 | 88.5 | 89.8 | 90.9 | 90.9 | 90.9 | 90.9 | 91.0  | 91.0  |
| ≥ 500           | 40.9                     | 63.4 | 69.1 | 75.6 | 77.8 | 84.7 | 88.6 | 89.9 | 89.9 | 91.5 | 92.6 | 92.6 | 92.6 | 92.6 | 92.7  | 92.7  |
| ≥ 400           | 41.1                     | 63.5 | 69.4 | 75.8 | 78.3 | 85.7 | 90.0 | 91.5 | 91.5 | 93.6 | 94.8 | 94.8 | 94.8 | 94.8 | 94.9  | 94.9  |
| ≥ 300           | 41.2                     | 63.8 | 69.6 | 76.2 | 78.6 | 86.6 | 91.5 | 93.0 | 93.0 | 95.4 | 96.7 | 96.7 | 96.7 | 96.7 | 96.8  | 96.8  |
| ≥ 200           | 41.2                     | 63.8 | 69.6 | 76.2 | 78.6 | 86.6 | 91.7 | 93.3 | 93.3 | 96.5 | 98.2 | 98.2 | 98.3 | 98.3 | 98.7  | 98.8  |
| ≥ 100           | 41.2                     | 63.8 | 69.6 | 76.2 | 78.6 | 86.6 | 91.7 | 93.3 | 93.3 | 96.5 | 98.2 | 98.2 | 98.7 | 98.7 | 99.3  | 99.5  |
| ≥ 0             | 41.2                     | 63.8 | 69.6 | 76.2 | 78.6 | 86.6 | 91.7 | 93.3 | 93.3 | 96.5 | 98.2 | 98.2 | 98.7 | 98.7 | 99.4  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 823



GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION

YOUNGSTOWN MAP OH

73-81

YEARS

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-1100  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥.1   |
| NO CEILING      | 26.4                     | 34.3 | 35.3 | 36.3 | 37.9 | 38.4 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5  |
| ≥ 20000         | 29.3                     | 39.6 | 40.7 | 41.6 | 43.5 | 44.2 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3  |
| ≥ 18000         | 29.3                     | 39.6 | 40.7 | 41.7 | 43.6 | 44.3 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4  |
| ≥ 16000         | 29.3                     | 39.6 | 40.7 | 41.7 | 43.6 | 44.3 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4  |
| ≥ 14000         | 30.1                     | 41.1 | 41.5 | 42.7 | 44.6 | 45.3 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4  |
| ≥ 12000         | 31.2                     | 42.0 | 43.6 | 44.9 | 46.8 | 47.5 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7 | 47.7  |
| ≥ 10000         | 33.7                     | 46.0 | 48.1 | 49.8 | 51.6 | 52.3 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5 | 52.5  |
| ≥ 9000          | 33.7                     | 46.3 | 48.5 | 50.2 | 52.1 | 52.8 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0  |
| ≥ 8000          | 34.4                     | 47.7 | 50.0 | 51.9 | 54.0 | 54.7 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8  |
| ≥ 7000          | 34.7                     | 48.1 | 50.5 | 52.5 | 54.6 | 55.3 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4  |
| ≥ 6000          | 35.2                     | 49.5 | 52.0 | 54.0 | 56.0 | 56.8 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9  |
| ≥ 5000          | 36.5                     | 51.7 | 54.4 | 56.8 | 59.0 | 59.9 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 60.1  |
| ≥ 4500          | 37.2                     | 52.6 | 55.4 | 57.8 | 60.1 | 61.0 | 61.1 | 61.1 | 61.1 | 61.1 | 61.1 | 61.1 | 61.1 | 61.1 | 61.2  |
| ≥ 4000          | 38.4                     | 54.8 | 57.9 | 60.4 | 63.1 | 64.2 | 64.4 | 64.4 | 64.4 | 64.4 | 64.6 | 64.6 | 64.6 | 64.6 | 64.7  |
| ≥ 3500          | 41.4                     | 58.1 | 61.4 | 63.9 | 66.5 | 67.7 | 67.9 | 67.9 | 67.9 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.3  |
| ≥ 3000          | 43.6                     | 61.4 | 64.6 | 67.4 | 70.1 | 71.2 | 71.5 | 71.5 | 71.5 | 71.7 | 71.7 | 71.7 | 71.7 | 71.7 | 71.9  |
| ≥ 2500          | 46.4                     | 64.9 | 68.4 | 71.5 | 74.3 | 75.4 | 75.8 | 75.8 | 75.8 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.2  |
| ≥ 2000          | 48.9                     | 68.1 | 71.6 | 75.1 | 77.9 | 79.1 | 79.6 | 79.6 | 79.6 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 80.0  |
| ≥ 1800          | 49.5                     | 69.5 | 73.0 | 76.4 | 79.3 | 80.6 | 81.1 | 81.2 | 81.2 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.6  |
| ≥ 1500          | 50.4                     | 71.1 | 74.6 | 78.3 | 81.4 | 82.7 | 83.2 | 83.3 | 83.3 | 83.6 | 83.6 | 83.6 | 83.6 | 83.6 | 83.7  |
| ≥ 1200          | 51.4                     | 73.0 | 76.8 | 80.4 | 84.0 | 86.0 | 86.7 | 86.8 | 86.8 | 87.0 | 87.0 | 87.0 | 87.0 | 87.0 | 87.2  |
| ≥ 1000          | 51.7                     | 74.2 | 78.4 | 82.2 | 85.9 | 88.1 | 88.9 | 89.0 | 89.0 | 89.3 | 89.3 | 89.3 | 89.3 | 89.3 | 89.4  |
| ≥ 900           | 52.2                     | 75.2 | 79.5 | 83.6 | 87.3 | 89.6 | 90.4 | 90.5 | 90.5 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.9  |
| ≥ 800           | 52.3                     | 75.8 | 80.2 | 84.4 | 88.4 | 90.9 | 92.0 | 92.1 | 92.1 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.5  |
| ≥ 700           | 52.3                     | 75.8 | 80.2 | 84.4 | 88.8 | 91.6 | 92.8 | 93.0 | 93.0 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.3  |
| ≥ 600           | 52.6                     | 76.3 | 81.0 | 85.4 | 89.8 | 93.0 | 94.7 | 94.9 | 94.9 | 95.2 | 95.3 | 95.3 | 95.3 | 95.3 | 95.4  |
| ≥ 500           | 52.7                     | 76.4 | 81.2 | 85.8 | 90.1 | 93.6 | 95.7 | 96.2 | 96.2 | 96.4 | 96.5 | 96.5 | 96.5 | 96.5 | 96.7  |
| ≥ 400           | 52.7                     | 76.4 | 81.5 | 86.0 | 90.6 | 94.4 | 96.8 | 97.7 | 97.7 | 98.3 | 98.4 | 98.4 | 98.4 | 98.4 | 98.5  |
| ≥ 300           | 52.7                     | 76.4 | 81.5 | 86.0 | 90.7 | 94.7 | 97.2 | 98.1 | 98.1 | 99.1 | 99.3 | 99.3 | 99.3 | 99.3 | 99.4  |
| ≥ 200           | 52.7                     | 76.4 | 81.5 | 86.0 | 90.7 | 94.7 | 97.2 | 98.1 | 98.1 | 99.3 | 99.5 | 99.5 | 99.8 | 99.8 | 99.9  |
| ≥ 100           | 52.7                     | 76.4 | 81.5 | 86.0 | 90.7 | 94.7 | 97.2 | 98.1 | 98.1 | 99.3 | 99.5 | 99.5 | 99.9 | 99.9 | 100.0 |
| ≥ 0             | 52.7                     | 76.4 | 81.5 | 86.0 | 90.7 | 94.7 | 97.2 | 98.1 | 98.1 | 99.3 | 99.5 | 99.5 | 99.9 | 99.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 812

SEAL CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

25 YOUNGSTOWN MAP OH

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2½  | ≥2   | ≥1½  | ≥1¼  | ≥1   | ≥¾    | ≥½    | ≥¼    | ≥1/16 | ≥0    | ≥0    |
| NO CEILING      | 27.1                       | 32.1 | 33.2 | 33.2 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7  | 33.7  | 33.7  | 33.7  | 33.7  | 33.7  |
| ≥ 20000         | 32.3                       | 38.9 | 41.2 | 40.2 | 42.7 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  | 40.9  |
| ≥ 18000         | 32.6                       | 39.2 | 41.6 | 40.6 | 41.1 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  |
| ≥ 16000         | 32.6                       | 39.2 | 41.6 | 40.6 | 41.1 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  | 41.3  |
| ≥ 14000         | 33.2                       | 39.9 | 41.2 | 41.3 | 41.8 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0  | 42.0  | 42.0  | 42.0  | 42.0  | 42.0  |
| ≥ 12000         | 35.6                       | 43.3 | 44.6 | 44.7 | 45.2 | 45.4 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6  | 45.6  | 45.6  | 45.6  | 45.6  | 45.6  |
| ≥ 10000         | 37.4                       | 46.5 | 48.0 | 48.1 | 48.6 | 48.8 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0  | 49.0  | 49.0  | 49.0  | 49.0  | 49.0  |
| ≥ 9000          | 37.5                       | 46.7 | 48.1 | 48.2 | 48.7 | 49.0 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1  | 49.1  | 49.1  | 49.1  | 49.1  | 49.1  |
| ≥ 8000          | 38.2                       | 47.9 | 49.3 | 49.5 | 49.9 | 50.2 | 50.3 | 50.3 | 50.3 | 50.3 | 50.3  | 50.3  | 50.3  | 50.3  | 50.3  | 50.3  |
| ≥ 7000          | 38.6                       | 48.5 | 49.9 | 50.1 | 50.5 | 50.8 | 50.9 | 50.9 | 50.9 | 50.9 | 50.9  | 50.9  | 50.9  | 50.9  | 50.9  | 50.9  |
| ≥ 6000          | 39.1                       | 49.0 | 50.4 | 50.5 | 51.0 | 51.3 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4  | 51.4  | 51.4  | 51.4  | 51.4  | 51.4  |
| ≥ 5000          | 40.9                       | 52.0 | 53.5 | 53.8 | 54.4 | 54.7 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8  | 54.8  | 54.8  | 54.8  | 54.8  | 54.8  |
| ≥ 4500          | 43.6                       | 55.2 | 56.6 | 57.0 | 57.6 | 57.8 | 58.0 | 58.0 | 58.0 | 58.0 | 58.1  | 58.1  | 58.1  | 58.1  | 58.1  | 58.1  |
| ≥ 4000          | 48.1                       | 61.0 | 62.5 | 62.9 | 63.7 | 64.2 | 64.3 | 64.3 | 64.3 | 64.3 | 64.4  | 64.4  | 64.4  | 64.4  | 64.4  | 64.4  |
| ≥ 3500          | 53.5                       | 67.2 | 68.8 | 69.4 | 70.4 | 71.0 | 71.1 | 71.1 | 71.1 | 71.1 | 71.2  | 71.2  | 71.2  | 71.2  | 71.2  | 71.2  |
| ≥ 3000          | 56.1                       | 71.2 | 73.3 | 74.2 | 75.2 | 76.1 | 76.3 | 76.3 | 76.3 | 76.4 | 76.4  | 76.4  | 76.4  | 76.4  | 76.4  | 76.4  |
| ≥ 2500          | 60.4                       | 77.3 | 79.6 | 80.6 | 81.7 | 82.6 | 82.9 | 83.0 | 83.0 | 83.1 | 83.1  | 83.1  | 83.1  | 83.1  | 83.1  | 83.1  |
| ≥ 2000          | 61.1                       | 79.5 | 82.3 | 83.8 | 84.9 | 86.3 | 86.5 | 86.6 | 86.6 | 86.9 | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  |
| ≥ 1800          | 61.5                       | 80.6 | 83.4 | 85.1 | 86.4 | 87.8 | 88.1 | 88.2 | 88.2 | 88.5 | 88.5  | 88.5  | 88.5  | 88.5  | 88.5  | 88.5  |
| ≥ 1500          | 62.1                       | 81.7 | 84.4 | 86.5 | 88.1 | 89.7 | 90.0 | 90.3 | 90.3 | 90.5 | 90.5  | 90.5  | 90.5  | 90.5  | 90.5  | 90.5  |
| ≥ 1200          | 62.3                       | 83.4 | 86.1 | 88.6 | 90.3 | 92.0 | 92.3 | 92.6 | 92.6 | 92.8 | 92.8  | 92.8  | 92.8  | 92.8  | 92.8  | 92.8  |
| ≥ 1000          | 62.7                       | 83.7 | 86.5 | 88.9 | 90.9 | 92.6 | 93.2 | 93.4 | 93.4 | 93.7 | 93.7  | 93.7  | 93.7  | 93.7  | 93.7  | 93.7  |
| ≥ 900           | 62.7                       | 84.2 | 87.1 | 89.4 | 91.6 | 93.3 | 94.2 | 94.5 | 94.5 | 94.8 | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  | 94.8  |
| ≥ 800           | 62.9                       | 84.4 | 87.2 | 89.7 | 92.0 | 93.7 | 94.9 | 95.3 | 95.3 | 95.5 | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  |
| ≥ 700           | 62.9                       | 84.6 | 87.5 | 90.0 | 92.5 | 94.2 | 95.7 | 96.1 | 96.1 | 96.4 | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  | 96.4  |
| ≥ 600           | 63.2                       | 85.1 | 88.1 | 90.8 | 93.3 | 95.3 | 97.2 | 97.7 | 97.7 | 97.9 | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  |
| ≥ 500           | 63.2                       | 85.2 | 88.3 | 91.0 | 93.7 | 95.7 | 97.9 | 98.4 | 98.4 | 98.8 | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  | 98.8  |
| ≥ 400           | 63.2                       | 85.3 | 88.5 | 91.1 | 93.9 | 96.2 | 98.4 | 99.0 | 99.0 | 99.6 | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| ≥ 300           | 63.2                       | 85.3 | 88.5 | 91.1 | 93.9 | 96.2 | 98.5 | 99.3 | 99.3 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 200           | 63.2                       | 85.3 | 88.5 | 91.1 | 93.9 | 96.2 | 98.5 | 99.3 | 99.3 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 100           | 63.2                       | 85.3 | 88.5 | 91.1 | 93.9 | 96.2 | 98.5 | 99.3 | 99.3 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 0             | 63.2                       | 85.3 | 88.5 | 91.1 | 93.9 | 96.2 | 98.5 | 99.3 | 99.3 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 823

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MIC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1539-1700  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥.5   | ≥.25  | ≥.15  | ≥.1   | ≥.05  | ≥.025 | ≥.01  |
| NO CEILING      | 33.5                       | 36.4 | 37.1 | 37.3 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5 | 37.5  | 37.5  | 37.5  | 37.5  | 37.5  | 37.5  | 37.5  |
| ≥ 20000         | 36.4                       | 43.6 | 44.4 | 44.5 | 44.7 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0  | 45.0  | 45.0  | 45.0  | 45.0  | 45.0  | 45.0  |
| ≥ 18000         | 36.4                       | 43.6 | 44.4 | 44.5 | 44.7 | 45.0 | 45.0 | 45.0 | 45.0 | 45.0  | 45.0  | 45.0  | 45.0  | 45.0  | 45.0  | 45.0  |
| ≥ 16000         | 36.5                       | 43.8 | 44.5 | 44.6 | 44.9 | 45.1 | 45.1 | 45.1 | 45.1 | 45.1  | 45.1  | 45.1  | 45.1  | 45.1  | 45.1  | 45.1  |
| IV 14000        | 36.6                       | 43.9 | 44.6 | 44.7 | 45.0 | 45.3 | 45.3 | 45.3 | 45.3 | 45.3  | 45.3  | 45.3  | 45.3  | 45.3  | 45.3  | 45.3  |
| IV 12000        | 38.2                       | 46.2 | 47.2 | 47.4 | 47.7 | 48.0 | 48.2 | 48.2 | 48.2 | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  | 48.2  |
| IV 10000        | 40.6                       | 49.4 | 50.5 | 50.9 | 51.2 | 51.6 | 51.8 | 51.8 | 51.8 | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  | 51.8  |
| IV 9000         | 40.3                       | 49.8 | 50.9 | 51.2 | 51.6 | 52.0 | 52.2 | 52.2 | 52.2 | 52.2  | 52.2  | 52.2  | 52.2  | 52.2  | 52.2  | 52.2  |
| IV 8000         | 43.0                       | 52.6 | 53.7 | 54.0 | 54.4 | 54.8 | 55.0 | 55.0 | 55.0 | 55.0  | 55.0  | 55.0  | 55.0  | 55.0  | 55.0  | 55.0  |
| IV 7000         | 43.9                       | 53.4 | 54.7 | 55.0 | 55.4 | 55.8 | 56.0 | 56.0 | 56.0 | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  | 56.0  |
| IV 6000         | 44.1                       | 54.2 | 55.4 | 55.8 | 56.1 | 56.6 | 56.9 | 56.9 | 56.9 | 56.9  | 56.9  | 56.9  | 56.9  | 56.9  | 56.9  | 56.9  |
| IV 5000         | 47.3                       | 58.6 | 60.0 | 60.4 | 60.8 | 61.4 | 61.6 | 61.6 | 61.6 | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  |
| IV 4500         | 51.5                       | 64.1 | 65.7 | 66.1 | 66.5 | 67.3 | 67.5 | 67.5 | 67.5 | 67.5  | 67.5  | 67.5  | 67.5  | 67.5  | 67.5  | 67.5  |
| IV 4000         | 54.3                       | 69.1 | 71.2 | 71.7 | 72.4 | 73.3 | 73.5 | 73.5 | 73.5 | 73.7  | 73.7  | 73.7  | 73.7  | 73.7  | 73.7  | 73.7  |
| IV 3500         | 58.6                       | 74.0 | 76.7 | 77.8 | 78.7 | 79.5 | 79.8 | 79.9 | 79.9 | 80.0  | 80.0  | 80.0  | 80.0  | 80.0  | 80.0  | 80.0  |
| IV 3000         | 61.3                       | 77.3 | 81.4 | 81.5 | 82.4 | 83.2 | 83.7 | 83.8 | 83.8 | 83.9  | 83.9  | 83.9  | 83.9  | 83.9  | 83.9  | 83.9  |
| IV 2500         | 61.5                       | 80.8 | 84.2 | 85.3 | 86.3 | 87.6 | 88.2 | 88.4 | 88.4 | 88.5  | 88.5  | 88.5  | 88.5  | 88.5  | 88.5  | 88.5  |
| IV 2000         | 61.6                       | 81.6 | 85.2 | 86.4 | 87.5 | 88.8 | 89.5 | 89.6 | 89.6 | 89.7  | 89.7  | 89.7  | 89.7  | 89.7  | 89.7  | 89.7  |
| IV 1800         | 61.6                       | 82.2 | 86.0 | 87.3 | 88.5 | 90.0 | 90.6 | 90.7 | 90.7 | 90.8  | 90.8  | 90.8  | 90.8  | 90.8  | 90.8  | 90.8  |
| IV 1500         | 62.1                       | 83.1 | 87.0 | 88.4 | 89.7 | 91.7 | 92.3 | 92.4 | 92.4 | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  | 92.5  |
| IV 1200         | 62.9                       | 83.8 | 87.7 | 89.6 | 90.9 | 93.0 | 93.8 | 94.2 | 94.2 | 94.4  | 94.4  | 94.4  | 94.4  | 94.4  | 94.4  | 94.4  |
| IV 1000         | 63.0                       | 84.2 | 88.1 | 90.1 | 91.5 | 93.6 | 94.5 | 95.0 | 95.0 | 95.1  | 95.1  | 95.1  | 95.1  | 95.1  | 95.1  | 95.1  |
| IV 900          | 63.1                       | 84.7 | 88.7 | 90.8 | 92.3 | 94.5 | 95.5 | 96.0 | 96.0 | 96.2  | 96.2  | 96.2  | 96.2  | 96.2  | 96.2  | 96.2  |
| IV 800          | 63.2                       | 84.8 | 88.8 | 91.1 | 92.5 | 94.9 | 96.1 | 96.7 | 96.7 | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  |
| IV 700          | 63.4                       | 85.0 | 89.1 | 91.3 | 92.8 | 95.2 | 96.4 | 97.4 | 97.4 | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  |
| IV 600          | 63.5                       | 85.2 | 89.2 | 91.7 | 93.1 | 95.6 | 96.8 | 98.0 | 98.0 | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  |
| IV 500          | 63.5                       | 85.2 | 89.3 | 92.3 | 93.8 | 96.3 | 97.5 | 98.8 | 98.8 | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  |
| IV 400          | 63.5                       | 85.2 | 89.3 | 92.3 | 93.8 | 96.3 | 97.5 | 98.9 | 98.9 | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  | 99.4  |
| IV 300          | 63.5                       | 85.2 | 89.3 | 92.4 | 93.9 | 96.6 | 97.8 | 99.1 | 99.1 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| IV 200          | 63.5                       | 85.2 | 89.3 | 92.4 | 93.9 | 96.6 | 97.8 | 99.1 | 99.1 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| IV 100          | 63.5                       | 85.2 | 89.3 | 92.4 | 93.9 | 96.6 | 97.8 | 99.1 | 99.1 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| IV 0            | 63.5                       | 85.2 | 89.3 | 92.4 | 93.9 | 96.6 | 97.8 | 99.1 | 99.1 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 816

CLIMATE CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

25 YOUNGSTOWN MAP OH  
STATION

73-81

YEARS

MAY

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2½  | ≥2   | ≥1½  | ≥1¼  | ≥1   | ≥¾   | ≥½   | ≥¼   | ≥1/8 | ≥1/16 | ≥0   |
| NO CEILING      | 34.3                       | 41.1 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7  | 42.7 |
| ≥ 20000         | 42.7                       | 49.9 | 50.9 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7  | 51.7 |
| ≥ 18000         | 42.7                       | 49.9 | 50.9 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7  | 51.7 |
| ≥ 16000         | 42.7                       | 49.9 | 50.9 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7  | 51.7 |
| ≥ 14000         | 43.1                       | 50.2 | 51.2 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3  | 52.3 |
| ≥ 12000         | 44.0                       | 51.9 | 53.2 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.4 | 54.4 | 54.4 | 54.4 | 54.4  | 54.4 |
| ≥ 10000         | 45.0                       | 54.0 | 55.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.4 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6  | 56.6 |
| ≥ 9000          | 45.5                       | 54.7 | 56.1 | 57.2 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5 | 57.5  | 57.5 |
| ≥ 8000          | 46.1                       | 56.2 | 57.7 | 59.0 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4  | 59.4 |
| ≥ 7000          | 46.4                       | 57.2 | 58.8 | 60.1 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 | 60.5  | 60.5 |
| ≥ 6000          | 47.8                       | 59.5 | 61.1 | 62.4 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.8 | 62.8 | 62.8 | 62.8 | 62.8 | 62.8  | 62.8 |
| ≥ 5000          | 51.3                       | 65.1 | 67.7 | 69.4 | 69.6 | 69.6 | 69.6 | 69.6 | 69.6 | 69.6 | 69.6 | 69.6 | 69.6 | 69.6 | 69.6  | 69.6 |
| ≥ 4500          | 54.3                       | 68.9 | 71.3 | 72.7 | 73.0 | 73.4 | 73.6 | 74.0 | 74.0 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.2  | 74.2 |
| ≥ 4000          | 56.6                       | 71.9 | 74.8 | 76.8 | 77.3 | 77.7 | 78.1 | 78.5 | 78.5 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.7  | 78.7 |
| ≥ 3500          | 58.4                       | 74.5 | 77.5 | 79.6 | 80.0 | 80.9 | 81.3 | 81.8 | 81.8 | 81.9 | 81.9 | 81.9 | 81.9 | 82.0 | 82.0  | 82.0 |
| ≥ 3000          | 59.7                       | 76.3 | 79.6 | 81.8 | 82.4 | 83.2 | 83.8 | 84.3 | 84.3 | 84.4 | 84.4 | 84.4 | 84.4 | 84.5 | 84.5  | 84.5 |
| ≥ 2500          | 60.7                       | 78.1 | 81.8 | 84.1 | 84.8 | 86.5 | 87.5 | 88.0 | 88.0 | 88.1 | 88.1 | 88.1 | 88.1 | 88.2 | 88.2  | 88.2 |
| ≥ 2000          | 61.6                       | 79.6 | 83.5 | 85.8 | 86.5 | 88.2 | 89.4 | 89.9 | 89.9 | 90.0 | 90.0 | 90.0 | 90.0 | 90.1 | 90.1  | 90.1 |
| ≥ 1800          | 61.7                       | 80.2 | 84.1 | 86.4 | 87.1 | 88.9 | 90.1 | 90.6 | 90.6 | 90.8 | 90.8 | 90.8 | 90.8 | 90.9 | 90.9  | 90.9 |
| ≥ 1500          | 62.2                       | 80.8 | 84.7 | 87.2 | 88.2 | 90.3 | 91.7 | 92.3 | 92.3 | 92.5 | 92.5 | 92.5 | 92.5 | 92.6 | 92.6  | 92.6 |
| ≥ 1200          | 62.4                       | 81.3 | 85.3 | 88.4 | 89.5 | 91.6 | 93.2 | 93.8 | 93.8 | 93.9 | 94.2 | 94.2 | 94.2 | 94.3 | 94.3  | 94.3 |
| ≥ 1000          | 62.8                       | 81.6 | 85.8 | 88.9 | 90.1 | 92.2 | 93.9 | 94.5 | 94.5 | 94.6 | 94.9 | 94.9 | 94.9 | 95.0 | 95.0  | 95.0 |
| ≥ 900           | 62.8                       | 81.8 | 86.7 | 89.3 | 90.5 | 92.6 | 94.3 | 94.9 | 94.9 | 95.0 | 95.3 | 95.3 | 95.3 | 95.4 | 95.4  | 95.4 |
| ≥ 800           | 62.8                       | 81.8 | 86.7 | 89.3 | 90.6 | 92.7 | 94.4 | 95.0 | 95.0 | 95.1 | 95.4 | 95.4 | 95.4 | 95.5 | 95.5  | 95.5 |
| ≥ 700           | 62.9                       | 82.7 | 86.4 | 89.8 | 91.1 | 93.4 | 95.3 | 95.9 | 95.9 | 96.0 | 96.2 | 96.2 | 96.2 | 96.4 | 96.4  | 96.4 |
| ≥ 600           | 62.9                       | 82.1 | 86.5 | 89.9 | 91.2 | 93.7 | 95.6 | 96.4 | 96.4 | 96.6 | 96.8 | 96.8 | 96.8 | 97.0 | 97.0  | 97.0 |
| ≥ 500           | 62.9                       | 82.1 | 86.5 | 89.9 | 91.2 | 93.7 | 95.9 | 96.8 | 96.8 | 97.1 | 97.3 | 97.3 | 97.3 | 97.4 | 97.4  | 97.4 |
| ≥ 400           | 62.9                       | 82.1 | 86.6 | 90.0 | 91.5 | 94.0 | 96.7 | 98.1 | 98.1 | 98.3 | 98.5 | 98.5 | 98.5 | 98.7 | 98.7  | 98.7 |
| ≥ 300           | 62.9                       | 82.2 | 86.7 | 90.1 | 91.6 | 94.2 | 97.3 | 98.7 | 98.7 | 99.0 | 99.3 | 99.3 | 99.3 | 99.4 | 99.4  | 99.4 |
| ≥ 200           | 62.9                       | 82.2 | 86.7 | 90.1 | 91.6 | 94.2 | 97.3 | 98.7 | 98.7 | 99.1 | 99.4 | 99.4 | 99.4 | 99.5 | 99.5  | 99.5 |
| ≥ 100           | 62.9                       | 82.2 | 86.7 | 90.1 | 91.6 | 94.2 | 97.3 | 98.7 | 98.7 | 99.1 | 99.5 | 99.5 | 99.5 | 99.9 | 99.9  | 99.9 |
| ≥ 0             | 62.9                       | 82.2 | 86.7 | 90.1 | 91.6 | 94.2 | 97.3 | 98.7 | 98.7 | 99.1 | 99.5 | 99.5 | 99.5 | 99.9 | 99.9  | 99.9 |

TOTAL NUMBER OF OBSERVATIONS 822

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

MAY

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.7 | ≥2   | ≥1.7 | ≥1.4 | ≥1   | ≥.7  | ≥.4  | ≥.3  | ≥.16 | ≥.1  | ≥0    |
| NO CEILING      | 39.2                       | 47.7 | 48.7 | 49.6 | 49.6 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7 | 49.7  |
| ≥ 20000         | 42.9                       | 52.4 | 53.4 | 55.3 | 55.3 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4  |
| ≥ 18000         | 42.7                       | 52.4 | 53.4 | 55.3 | 55.3 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4  |
| ≥ 16000         | 42.9                       | 52.4 | 53.4 | 55.3 | 55.3 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4 | 55.4  |
| ≥ 14000         | 43.6                       | 53.1 | 54.1 | 56.1 | 56.1 | 56.2 | 56.2 | 56.2 | 56.2 | 56.2 | 56.2 | 56.2 | 56.2 | 56.2 | 56.2 | 56.2  |
| ≥ 12000         | 44.3                       | 54.8 | 55.8 | 57.8 | 57.8 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0  |
| ≥ 10000         | 46.5                       | 56.7 | 58.0 | 60.0 | 60.1 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3 | 60.3  |
| ≥ 9000          | 47.4                       | 58.0 | 59.2 | 61.3 | 61.4 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5  |
| ≥ 8000          | 48.0                       | 59.5 | 61.0 | 63.2 | 63.3 | 63.4 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6 | 63.6  |
| ≥ 7000          | 49.0                       | 60.5 | 62.4 | 64.7 | 64.8 | 65.0 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1 | 65.1  |
| ≥ 6000          | 50.2                       | 62.2 | 64.1 | 66.4 | 66.5 | 66.6 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9 | 66.9  |
| ≥ 5000          | 52.4                       | 65.5 | 67.9 | 71.2 | 71.5 | 71.6 | 71.8 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0 | 72.0  |
| ≥ 4500          | 53.1                       | 67.4 | 71.3 | 73.8 | 74.0 | 74.3 | 74.5 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6 | 74.6  |
| ≥ 4000          | 55.0                       | 71.1 | 74.5 | 76.6 | 78.9 | 79.2 | 79.5 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6  |
| ≥ 3500          | 55.8                       | 72.4 | 75.8 | 80.0 | 80.3 | 80.6 | 80.9 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0 | 81.0  |
| ≥ 3000          | 56.3                       | 74.1 | 77.8 | 82.3 | 82.5 | 83.1 | 83.6 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7  |
| ≥ 2500          | 56.9                       | 75.3 | 79.2 | 83.8 | 84.2 | 85.1 | 85.7 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0 | 86.0  |
| ≥ 2000          | 57.6                       | 76.2 | 80.4 | 85.5 | 86.0 | 87.0 | 87.6 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9 | 87.9  |
| ≥ 1800          | 57.6                       | 75.3 | 80.6 | 86.0 | 86.5 | 87.6 | 88.3 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5 | 88.5  |
| ≥ 1500          | 57.6                       | 77.1 | 81.7 | 87.1 | 87.8 | 88.9 | 89.6 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9  |
| ≥ 1200          | 57.8                       | 78.0 | 82.5 | 88.0 | 88.7 | 89.9 | 90.6 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  |
| ≥ 1000          | 58.1                       | 79.0 | 83.6 | 89.4 | 90.2 | 91.5 | 92.1 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9  |
| ≥ 900           | 58.1                       | 79.1 | 83.7 | 89.8 | 90.6 | 91.8 | 92.5 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2 | 93.2  |
| ≥ 800           | 58.1                       | 79.4 | 84.1 | 90.3 | 91.1 | 92.4 | 93.0 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8 | 93.8  |
| ≥ 700           | 58.1                       | 79.5 | 84.2 | 90.4 | 91.2 | 92.5 | 93.1 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0  |
| ≥ 600           | 58.2                       | 79.6 | 84.3 | 90.7 | 91.5 | 92.9 | 93.5 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4  |
| ≥ 500           | 58.2                       | 79.9 | 84.7 | 91.2 | 92.0 | 93.4 | 94.3 | 95.2 | 95.2 | 95.3 | 95.4 | 95.5 | 95.5 | 95.5 | 95.5 | 95.5  |
| ≥ 400           | 58.3                       | 80.3 | 85.2 | 92.1 | 92.9 | 94.5 | 96.1 | 97.1 | 97.1 | 97.2 | 97.3 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5  |
| ≥ 300           | 58.3                       | 80.6 | 85.6 | 92.7 | 93.5 | 95.2 | 96.9 | 98.1 | 98.1 | 98.2 | 98.3 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5  |
| ≥ 200           | 58.3                       | 80.6 | 85.6 | 92.7 | 93.9 | 95.5 | 97.6 | 98.9 | 98.9 | 99.2 | 99.4 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  |
| ≥ 100           | 58.3                       | 80.6 | 85.6 | 92.7 | 93.9 | 95.5 | 97.6 | 98.9 | 98.9 | 99.2 | 99.4 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5  |
| ≥ 0             | 58.3                       | 80.6 | 85.6 | 92.7 | 93.9 | 95.5 | 97.6 | 98.9 | 98.9 | 99.2 | 99.4 | 99.5 | 99.5 | 99.5 | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 785

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

MAY

ALL  
HOURS

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥.4   |
| NO CEILING      | 31.1                       | 38.5 | 40.0 | 41.4 | 42.0 | 42.3 | 42.6 | 42.6 | 42.7 | 42.7 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8  |
| ≥ 20000         | 34.9                       | 43.9 | 45.6 | 47.4 | 48.0 | 48.5 | 48.8 | 48.9 | 48.9 | 49.0 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1  |
| ≥ 18000         | 35.0                       | 43.9 | 45.7 | 47.5 | 48.1 | 48.6 | 48.9 | 49.0 | 49.0 | 49.1 | 49.2 | 49.2 | 49.2 | 49.2 | 49.2 | 49.2  |
| ≥ 16000         | 35.0                       | 43.9 | 45.7 | 47.5 | 48.1 | 48.6 | 48.9 | 49.0 | 49.0 | 49.1 | 49.2 | 49.2 | 49.2 | 49.2 | 49.2 | 49.2  |
| ≥ 14000         | 35.4                       | 44.4 | 46.1 | 46.0 | 48.6 | 49.2 | 49.5 | 49.6 | 49.6 | 49.7 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8  |
| ≥ 12000         | 35.7                       | 46.3 | 48.1 | 50.1 | 50.7 | 51.3 | 51.7 | 51.8 | 51.8 | 51.9 | 51.9 | 51.9 | 51.9 | 51.9 | 52.0 | 52.0  |
| ≥ 10000         | 38.6                       | 49.1 | 51.2 | 53.2 | 53.6 | 54.4 | 54.9 | 55.0 | 55.0 | 55.1 | 55.1 | 55.1 | 55.2 | 55.2 | 55.2 | 55.2  |
| ≥ 9000          | 32.9                       | 49.7 | 51.8 | 53.8 | 54.5 | 55.2 | 55.6 | 55.7 | 55.8 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 56.0 | 56.0  |
| ≥ 8000          | 39.9                       | 51.6 | 53.8 | 56.0 | 56.7 | 57.4 | 57.9 | 58.0 | 58.0 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.3 | 58.3  |
| ≥ 7000          | 40.4                       | 52.4 | 54.7 | 56.9 | 57.7 | 58.4 | 58.9 | 59.0 | 59.0 | 59.1 | 59.2 | 59.2 | 59.2 | 59.2 | 59.3 | 59.3  |
| ≥ 6000          | 41.1                       | 53.6 | 55.9 | 58.2 | 58.9 | 59.6 | 60.2 | 60.3 | 60.3 | 60.5 | 60.5 | 60.5 | 60.6 | 60.6 | 60.6 | 60.6  |
| ≥ 5000          | 43.5                       | 57.3 | 59.9 | 62.5 | 63.4 | 64.2 | 64.9 | 65.0 | 65.1 | 65.2 | 65.3 | 65.3 | 65.4 | 65.4 | 65.4 | 65.4  |
| ≥ 4500          | 45.3                       | 59.8 | 62.6 | 65.3 | 66.2 | 67.1 | 67.8 | 68.0 | 68.1 | 68.3 | 68.3 | 68.3 | 68.4 | 68.4 | 68.4 | 68.4  |
| ≥ 4000          | 47.6                       | 63.4 | 66.5 | 69.5 | 70.7 | 71.8 | 72.6 | 72.8 | 72.8 | 73.0 | 73.1 | 73.1 | 73.2 | 73.2 | 73.2 | 73.2  |
| ≥ 3500          | 49.8                       | 66.3 | 69.6 | 72.8 | 73.9 | 75.2 | 75.9 | 76.2 | 76.2 | 76.5 | 76.6 | 76.6 | 76.6 | 76.6 | 76.7 | 76.7  |
| ≥ 3000          | 51.1                       | 68.5 | 72.1 | 75.5 | 76.7 | 78.0 | 78.9 | 79.2 | 79.2 | 79.5 | 79.6 | 79.6 | 79.7 | 79.7 | 79.7 | 79.7  |
| ≥ 2500          | 52.8                       | 71.2 | 75.0 | 78.4 | 79.7 | 81.3 | 82.3 | 82.6 | 82.6 | 82.9 | 83.0 | 83.0 | 83.1 | 83.1 | 83.2 | 83.2  |
| ≥ 2000          | 53.6                       | 72.6 | 76.6 | 80.3 | 81.6 | 83.3 | 84.4 | 84.7 | 84.7 | 85.0 | 85.1 | 85.1 | 85.2 | 85.2 | 85.3 | 85.3  |
| ≥ 1800          | 53.9                       | 73.3 | 77.3 | 81.1 | 82.5 | 84.3 | 85.4 | 85.7 | 85.8 | 86.0 | 86.2 | 86.2 | 86.2 | 86.2 | 86.3 | 86.3  |
| ≥ 1500          | 54.3                       | 74.1 | 78.2 | 82.1 | 83.7 | 85.5 | 86.7 | 87.1 | 87.1 | 87.4 | 87.5 | 87.5 | 87.6 | 87.6 | 87.6 | 87.7  |
| ≥ 1200          | 54.5                       | 75.1 | 79.3 | 83.5 | 85.1 | 87.3 | 88.5 | 89.1 | 89.1 | 89.4 | 89.6 | 89.6 | 89.7 | 89.7 | 89.7 | 89.8  |
| ≥ 1000          | 55.0                       | 75.7 | 80.1 | 84.4 | 86.2 | 88.4 | 89.8 | 90.3 | 90.4 | 90.7 | 90.9 | 90.9 | 91.0 | 91.0 | 91.0 | 91.0  |
| ≥ 900           | 55.2                       | 76.1 | 80.5 | 85.0 | 86.8 | 89.1 | 90.5 | 91.1 | 91.1 | 91.5 | 91.7 | 91.7 | 91.8 | 91.8 | 91.8 | 91.9  |
| ≥ 800           | 55.3                       | 76.4 | 80.9 | 85.4 | 87.3 | 89.7 | 91.3 | 91.9 | 91.9 | 92.2 | 92.4 | 92.5 | 92.5 | 92.5 | 92.6 | 92.6  |
| ≥ 700           | 55.3                       | 76.7 | 81.3 | 85.9 | 87.9 | 90.4 | 92.1 | 92.9 | 92.9 | 93.3 | 93.5 | 93.5 | 93.6 | 93.6 | 93.6 | 93.7  |
| ≥ 600           | 55.4                       | 77.0 | 81.6 | 86.5 | 88.5 | 91.2 | 93.0 | 93.9 | 93.9 | 94.3 | 94.5 | 94.6 | 94.7 | 94.7 | 94.7 | 94.7  |
| ≥ 500           | 55.5                       | 77.3 | 82.0 | 87.1 | 89.1 | 91.9 | 93.9 | 94.9 | 94.9 | 95.3 | 95.6 | 95.6 | 95.7 | 95.7 | 95.7 | 95.8  |
| ≥ 400           | 55.5                       | 77.4 | 82.2 | 87.5 | 89.7 | 92.8 | 95.1 | 96.3 | 96.3 | 96.9 | 97.2 | 97.2 | 97.3 | 97.3 | 97.4 | 97.4  |
| ≥ 300           | 55.5                       | 77.5 | 82.4 | 87.7 | 90.0 | 93.3 | 95.9 | 97.2 | 97.2 | 98.0 | 98.3 | 98.3 | 98.5 | 98.5 | 98.5 | 98.6  |
| ≥ 200           | 55.5                       | 77.5 | 82.4 | 87.7 | 90.0 | 93.3 | 96.1 | 97.5 | 97.5 | 98.5 | 98.9 | 99.0 | 99.1 | 99.1 | 99.3 | 99.3  |
| ≥ 100           | 55.5                       | 77.5 | 82.4 | 87.7 | 90.1 | 93.4 | 96.2 | 97.5 | 97.5 | 98.6 | 99.1 | 99.1 | 99.4 | 99.4 | 99.6 | 99.7  |
| ≥ 0             | 55.5                       | 77.5 | 82.4 | 87.7 | 90.1 | 93.4 | 96.2 | 97.5 | 97.5 | 98.6 | 99.1 | 99.1 | 99.4 | 99.4 | 99.6 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 6416

CLIMATOLOGY BRANCH  
USAF ETAC  
4th WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0230  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |       |      |       |      |       |       |       |       |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|-------|------|-------|-------|-------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.7 | ≥ 2  | ≥ 1.7 | ≥ 1.5 | ≥ 1  | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .1  | ≥ .05 | ≥ 0   |
| NO CEILING      | 32.7                       | 43.2 | 43.7 | 51.1 | 53.5 | 54.4  | 55.1 | 55.8  | 55.8  | 55.8 | 55.8  | 55.8 | 56.2  | 56.4  | 56.4  | 56.4  |
| ≥ 20000         | 34.4                       | 46.3 | 51.8 | 55.7 | 58.8 | 59.6  | 60.3 | 61.0  | 61.0  | 61.0 | 61.0  | 61.0 | 61.5  | 61.6  | 61.6  | 61.6  |
| ≥ 18000         | 34.4                       | 46.3 | 51.8 | 55.7 | 58.8 | 59.6  | 60.3 | 61.0  | 61.0  | 61.0 | 61.0  | 61.0 | 61.5  | 61.6  | 61.6  | 61.6  |
| ≥ 16000         | 34.4                       | 46.3 | 51.8 | 55.7 | 58.8 | 59.6  | 60.3 | 61.0  | 61.0  | 61.0 | 61.0  | 61.0 | 61.5  | 61.6  | 61.6  | 61.6  |
| ≥ 14000         | 34.4                       | 46.3 | 51.8 | 55.7 | 58.9 | 59.8  | 60.5 | 61.2  | 61.2  | 61.2 | 61.2  | 61.2 | 61.6  | 61.8  | 61.8  | 61.8  |
| ≥ 12000         | 34.5                       | 47.6 | 53.1 | 56.9 | 60.3 | 61.2  | 61.9 | 62.6  | 62.6  | 62.6 | 62.6  | 62.6 | 63.0  | 63.2  | 63.2  | 63.2  |
| ≥ 10000         | 37.3                       | 50.1 | 55.8 | 60.9 | 64.6 | 65.4  | 66.3 | 67.3  | 67.0  | 67.0 | 67.0  | 67.0 | 67.4  | 67.6  | 67.6  | 67.6  |
| ≥ 9000          | 37.7                       | 51.0 | 56.6 | 61.9 | 65.6 | 66.4  | 67.3 | 68.0  | 68.0  | 68.0 | 68.0  | 68.0 | 68.4  | 68.6  | 68.6  | 68.6  |
| ≥ 8000          | 39.5                       | 52.7 | 58.6 | 64.0 | 68.1 | 69.0  | 69.8 | 70.5  | 70.5  | 70.5 | 70.5  | 70.5 | 71.0  | 71.1  | 71.1  | 71.1  |
| ≥ 7000          | 39.9                       | 54.2 | 60.2 | 65.6 | 69.7 | 70.5  | 71.7 | 72.5  | 72.5  | 72.5 | 72.5  | 72.5 | 72.9  | 73.1  | 73.1  | 73.1  |
| ≥ 6000          | 41.2                       | 54.8 | 60.9 | 66.3 | 70.4 | 71.2  | 72.4 | 73.2  | 73.2  | 73.2 | 73.2  | 73.2 | 73.7  | 73.8  | 73.8  | 73.8  |
| ≥ 5000          | 41.6                       | 56.1 | 64.4 | 70.5 | 75.1 | 75.9  | 77.6 | 78.5  | 78.5  | 78.5 | 78.5  | 78.5 | 78.9  | 79.0  | 79.0  | 79.0  |
| ≥ 4500          | 41.6                       | 56.9 | 65.6 | 71.7 | 76.2 | 77.0  | 78.9 | 79.7  | 79.7  | 79.7 | 79.7  | 79.7 | 80.2  | 80.3  | 80.3  | 80.3  |
| ≥ 4000          | 43.1                       | 62.2 | 70.0 | 76.5 | 81.0 | 81.9  | 83.7 | 84.6  | 84.6  | 84.6 | 84.6  | 84.6 | 85.0  | 85.1  | 85.1  | 85.1  |
| ≥ 3500          | 43.3                       | 62.7 | 71.1 | 77.8 | 82.3 | 83.3  | 85.3 | 86.3  | 86.3  | 86.3 | 86.3  | 86.3 | 86.7  | 86.8  | 86.8  | 86.8  |
| ≥ 3000          | 43.6                       | 64.4 | 72.8 | 80.0 | 84.6 | 85.6  | 87.5 | 88.5  | 88.5  | 88.5 | 88.5  | 88.5 | 89.0  | 89.1  | 89.1  | 89.1  |
| ≥ 2500          | 44.1                       | 65.7 | 74.1 | 81.3 | 85.8 | 86.8  | 88.8 | 89.8  | 89.8  | 89.8 | 89.8  | 89.8 | 90.2  | 90.4  | 90.4  | 90.4  |
| ≥ 2000          | 44.3                       | 66.6 | 74.9 | 82.7 | 87.3 | 88.2  | 90.4 | 91.6  | 91.6  | 91.6 | 91.8  | 91.8 | 92.2  | 92.4  | 92.4  | 92.4  |
| ≥ 1800          | 44.5                       | 67.0 | 75.4 | 83.6 | 88.1 | 89.1  | 91.2 | 92.5  | 92.5  | 92.5 | 92.6  | 92.6 | 93.1  | 93.2  | 93.2  | 93.2  |
| ≥ 1500          | 44.6                       | 67.3 | 75.6 | 83.9 | 88.4 | 89.4  | 91.9 | 93.2  | 93.2  | 93.2 | 93.3  | 93.3 | 93.8  | 93.9  | 93.9  | 93.9  |
| ≥ 1200          | 44.8                       | 67.4 | 76.2 | 84.6 | 89.1 | 90.1  | 92.6 | 93.9  | 93.9  | 93.9 | 94.1  | 94.1 | 94.5  | 94.6  | 94.6  | 94.6  |
| ≥ 1000          | 44.8                       | 67.6 | 76.3 | 84.7 | 89.2 | 90.2  | 92.8 | 94.2  | 94.2  | 94.2 | 94.3  | 94.3 | 94.8  | 94.9  | 94.9  | 94.9  |
| ≥ 900           | 44.8                       | 67.6 | 76.8 | 85.1 | 89.8 | 90.8  | 93.3 | 94.8  | 94.8  | 94.8 | 94.9  | 94.9 | 95.3  | 95.5  | 95.5  | 95.5  |
| ≥ 800           | 44.9                       | 67.8 | 77.3 | 86.0 | 90.7 | 91.6  | 94.2 | 95.8  | 95.8  | 95.8 | 95.9  | 95.9 | 96.3  | 96.5  | 96.5  | 96.5  |
| ≥ 700           | 44.9                       | 68.1 | 77.6 | 86.4 | 91.1 | 92.1  | 94.6 | 96.2  | 96.2  | 96.2 | 96.3  | 96.3 | 96.7  | 96.9  | 96.9  | 96.9  |
| ≥ 600           | 44.9                       | 68.1 | 77.8 | 86.7 | 91.5 | 92.5  | 95.0 | 96.6  | 96.6  | 96.6 | 96.7  | 96.7 | 97.2  | 97.3  | 97.3  | 97.3  |
| ≥ 500           | 44.9                       | 68.1 | 78.3 | 87.4 | 92.2 | 93.3  | 96.0 | 97.6  | 97.6  | 97.6 | 97.7  | 97.7 | 98.2  | 98.3  | 98.3  | 98.3  |
| ≥ 400           | 44.9                       | 68.3 | 78.5 | 87.7 | 92.5 | 93.8  | 96.6 | 98.2  | 98.2  | 98.2 | 98.3  | 98.3 | 98.7  | 98.9  | 98.9  | 98.9  |
| ≥ 300           | 44.9                       | 68.4 | 78.6 | 87.8 | 92.8 | 94.1  | 97.2 | 99.0  | 99.0  | 99.0 | 99.2  | 99.2 | 99.6  | 99.7  | 99.7  | 99.7  |
| ≥ 200           | 44.9                       | 68.4 | 78.6 | 87.8 | 92.8 | 94.1  | 97.2 | 99.0  | 99.0  | 99.0 | 99.2  | 99.2 | 99.6  | 99.7  | 99.7  | 99.7  |
| ≥ 100           | 44.9                       | 68.4 | 78.6 | 87.8 | 92.8 | 94.1  | 97.2 | 99.0  | 99.2  | 99.3 | 99.4  | 99.4 | 99.9  | 100.0 | 100.0 | 100.0 |
| ≥ 0             | 44.9                       | 68.4 | 78.6 | 87.8 | 92.8 | 94.1  | 97.2 | 99.0  | 99.2  | 99.3 | 99.4  | 99.4 | 99.9  | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 706

LOCAL CLIMATOLOGY BRANCH  
AFETAC  
40 WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

300-6500  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥.4   |
| NO CEILING      | 28.1                     | 39.7 | 42.4 | 47.7 | 49.8 | 51.1 | 51.9 | 53.3 | 53.3 | 53.7 | 53.9 | 53.9 | 54.7 | 55.0 | 55.3 | 55.6  |
| ≥ 20000         | 29.1                     | 41.7 | 44.6 | 50.2 | 52.8 | 54.0 | 55.2 | 56.7 | 56.7 | 57.1 | 57.3 | 57.3 | 58.1 | 58.4 | 58.7 | 59.2  |
| ≥ 18000         | 29.1                     | 41.7 | 44.6 | 50.2 | 52.8 | 54.0 | 55.2 | 56.7 | 56.7 | 57.1 | 57.3 | 57.3 | 58.1 | 58.4 | 58.7 | 59.2  |
| ≥ 16000         | 29.1                     | 41.7 | 44.6 | 50.2 | 52.8 | 54.0 | 55.2 | 56.7 | 56.7 | 57.1 | 57.3 | 57.3 | 58.1 | 58.4 | 58.7 | 59.2  |
| ≥ 14000         | 29.3                     | 42.0 | 44.6 | 50.5 | 53.0 | 54.3 | 55.4 | 57.0 | 57.0 | 57.4 | 57.6 | 57.6 | 58.4 | 58.7 | 59.0 | 59.3  |
| ≥ 12000         | 29.7                     | 43.0 | 46.7 | 51.8 | 54.3 | 55.6 | 56.7 | 58.3 | 58.3 | 58.7 | 58.8 | 58.8 | 59.7 | 60.0 | 60.3 | 60.5  |
| ≥ 10000         | 30.6                     | 44.7 | 47.8 | 53.9 | 56.9 | 58.3 | 59.4 | 61.0 | 61.0 | 61.4 | 61.5 | 61.5 | 62.4 | 62.7 | 62.9 | 63.2  |
| ≥ 9000          | 31.1                     | 45.3 | 48.4 | 54.5 | 57.6 | 59.0 | 60.3 | 61.8 | 61.8 | 62.2 | 62.4 | 62.4 | 63.2 | 63.5 | 63.8 | 64.1  |
| ≥ 8000          | 32.0                     | 46.7 | 49.8 | 56.2 | 59.7 | 61.2 | 62.7 | 64.2 | 64.2 | 64.6 | 64.8 | 64.8 | 65.6 | 65.9 | 66.2 | 66.5  |
| ≥ 7000          | 33.4                     | 48.4 | 51.5 | 57.9 | 61.5 | 63.1 | 64.6 | 66.5 | 66.5 | 66.9 | 67.0 | 67.2 | 68.0 | 68.3 | 68.6 | 68.9  |
| ≥ 6000          | 33.7                     | 48.9 | 52.2 | 58.6 | 62.2 | 63.8 | 65.3 | 67.2 | 67.2 | 67.6 | 67.8 | 67.9 | 68.7 | 69.0 | 69.3 | 69.6  |
| ≥ 5000          | 34.2                     | 50.6 | 54.5 | 61.4 | 65.5 | 67.5 | 69.0 | 71.1 | 71.3 | 71.7 | 71.9 | 72.0 | 72.8 | 73.1 | 73.4 | 73.8  |
| ≥ 4500          | 35.1                     | 52.1 | 56.0 | 63.1 | 67.3 | 69.3 | 70.9 | 73.0 | 73.1 | 73.6 | 73.7 | 73.8 | 74.7 | 75.0 | 75.2 | 75.7  |
| ≥ 4000          | 36.1                     | 54.2 | 58.3 | 66.3 | 70.6 | 72.7 | 74.7 | 76.8 | 76.9 | 77.4 | 77.7 | 77.8 | 78.6 | 78.9 | 79.2 | 79.6  |
| ≥ 3500          | 36.4                     | 54.9 | 59.7 | 67.9 | 72.7 | 74.8 | 76.8 | 78.9 | 79.1 | 79.5 | 79.8 | 79.9 | 80.8 | 81.0 | 81.3 | 81.8  |
| ≥ 3000          | 37.1                     | 55.9 | 61.2 | 69.3 | 74.3 | 76.7 | 78.6 | 80.8 | 80.9 | 81.3 | 81.6 | 81.8 | 82.6 | 82.9 | 83.2 | 83.6  |
| ≥ 2500          | 37.2                     | 57.7 | 62.4 | 71.9 | 76.7 | 78.4 | 80.3 | 82.5 | 82.6 | 83.2 | 83.5 | 83.6 | 84.4 | 84.7 | 85.0 | 85.4  |
| ≥ 2000          | 37.9                     | 58.1 | 64.1 | 72.6 | 77.9 | 81.3 | 82.5 | 84.6 | 84.7 | 85.3 | 85.6 | 85.7 | 86.6 | 86.8 | 87.1 | 87.6  |
| ≥ 1800          | 37.9                     | 58.4 | 64.4 | 72.8 | 78.4 | 80.8 | 82.9 | 85.0 | 85.1 | 85.7 | 86.0 | 86.1 | 87.0 | 87.3 | 87.8 | 88.3  |
| ≥ 1500          | 38.2                     | 58.8 | 64.8 | 73.4 | 79.9 | 81.3 | 83.7 | 86.1 | 86.3 | 86.8 | 87.1 | 87.3 | 88.1 | 88.4 | 89.2 | 89.4  |
| ≥ 1200          | 38.3                     | 59.4 | 65.3 | 74.1 | 79.6 | 82.0 | 84.6 | 87.0 | 87.1 | 87.7 | 88.0 | 88.1 | 89.0 | 89.3 | 89.8 | 90.2  |
| ≥ 1000          | 38.3                     | 60.0 | 66.1 | 75.1 | 80.6 | 83.0 | 85.7 | 88.1 | 88.3 | 88.8 | 89.1 | 89.3 | 90.1 | 90.4 | 90.9 | 91.4  |
| ≥ 900           | 38.3                     | 60.3 | 66.8 | 75.8 | 81.5 | 83.9 | 86.6 | 89.0 | 89.1 | 89.7 | 90.0 | 90.1 | 90.9 | 91.2 | 91.8 | 92.2  |
| ≥ 800           | 38.5                     | 60.7 | 67.5 | 76.7 | 82.5 | 84.9 | 87.7 | 90.2 | 90.4 | 90.9 | 91.2 | 91.4 | 92.2 | 92.5 | 93.1 | 93.5  |
| ≥ 700           | 38.5                     | 60.8 | 67.6 | 76.9 | 82.9 | 85.3 | 88.3 | 90.8 | 90.9 | 91.5 | 91.8 | 91.9 | 92.8 | 93.1 | 93.6 | 94.1  |
| ≥ 600           | 38.8                     | 61.1 | 67.9 | 77.7 | 83.6 | 86.0 | 89.1 | 91.7 | 91.8 | 92.5 | 92.8 | 92.9 | 93.8 | 94.1 | 94.6 | 95.0  |
| ≥ 500           | 38.8                     | 61.2 | 68.1 | 78.2 | 84.2 | 86.6 | 90.0 | 92.8 | 92.9 | 93.6 | 93.9 | 94.1 | 94.9 | 95.2 | 95.8 | 96.2  |
| ≥ 400           | 38.8                     | 61.4 | 68.2 | 78.6 | 84.9 | 87.3 | 91.1 | 94.2 | 94.3 | 95.0 | 95.3 | 95.5 | 96.3 | 96.6 | 97.2 | 97.6  |
| ≥ 300           | 38.9                     | 61.4 | 68.3 | 79.1 | 85.3 | 87.7 | 91.9 | 95.2 | 95.3 | 96.2 | 96.7 | 96.9 | 97.9 | 98.2 | 98.7 | 99.2  |
| ≥ 200           | 38.9                     | 61.4 | 68.3 | 79.1 | 85.3 | 87.7 | 91.9 | 95.2 | 95.3 | 96.2 | 96.7 | 96.9 | 97.9 | 98.2 | 98.7 | 99.2  |
| ≥ 100           | 38.9                     | 61.4 | 68.3 | 79.1 | 85.3 | 87.7 | 91.9 | 95.2 | 95.3 | 96.2 | 96.7 | 96.9 | 97.9 | 98.2 | 98.9 | 99.7  |
| ≥ 0             | 38.8                     | 61.4 | 68.3 | 79.1 | 85.3 | 87.7 | 91.9 | 95.2 | 95.3 | 96.2 | 96.7 | 96.9 | 97.9 | 98.2 | 98.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 707



AL CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2600-0800  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥.1   |
| NO CEILING      | 23.2                     | 35.5 | 39.7 | 42.5 | 45.2 | 46.1 | 48.2 | 49.3 | 49.3 | 49.6 | 49.6 | 49.6 | 49.6 | 49.7 | 49.7 | 50.2  |
| ≥ 20000         | 25.3                     | 38.9 | 42.5 | 46.3 | 49.1 | 50.4 | 52.8 | 54.3 | 54.3 | 54.5 | 54.7 | 54.7 | 54.8 | 54.8 | 55.3 | 55.5  |
| ≥ 18000         | 25.5                     | 38.9 | 42.5 | 46.3 | 49.1 | 51.4 | 52.9 | 54.4 | 54.4 | 54.7 | 54.8 | 54.8 | 54.9 | 54.9 | 55.4 | 55.7  |
| ≥ 16000         | 25.7                     | 38.9 | 42.5 | 46.3 | 49.1 | 51.4 | 52.9 | 54.4 | 54.4 | 54.7 | 54.8 | 54.8 | 54.9 | 54.9 | 55.4 | 55.7  |
| ≥ 14000         | 25.9                     | 39.1 | 42.7 | 46.6 | 49.3 | 51.7 | 53.2 | 54.7 | 54.7 | 54.9 | 55.0 | 55.0 | 55.2 | 55.2 | 55.7 | 55.9  |
| ≥ 12000         | 26.5                     | 40.1 | 44.1 | 47.9 | 51.1 | 52.8 | 55.4 | 56.9 | 56.9 | 57.2 | 57.3 | 57.3 | 57.4 | 57.4 | 57.9 | 58.2  |
| ≥ 10000         | 27.3                     | 42.3 | 46.5 | 50.4 | 53.5 | 55.5 | 58.3 | 59.8 | 59.8 | 60.0 | 60.1 | 60.1 | 60.3 | 60.3 | 60.8 | 61.0  |
| ≥ 9000          | 27.8                     | 42.8 | 46.9 | 50.9 | 54.0 | 56.0 | 58.8 | 60.3 | 60.3 | 60.5 | 60.6 | 60.6 | 60.8 | 60.8 | 61.3 | 61.5  |
| ≥ 8000          | 28.9                     | 44.8 | 49.4 | 53.8 | 57.4 | 61.1 | 62.9 | 64.6 | 64.6 | 65.0 | 65.1 | 65.1 | 65.3 | 65.3 | 65.8 | 66.0  |
| ≥ 7000          | 29.1                     | 45.5 | 50.1 | 54.7 | 58.3 | 61.1 | 64.1 | 65.9 | 65.9 | 66.4 | 66.5 | 66.5 | 66.6 | 66.6 | 67.1 | 67.4  |
| ≥ 6000          | 29.3                     | 45.6 | 50.2 | 54.8 | 58.4 | 61.4 | 64.4 | 66.1 | 66.1 | 66.6 | 66.7 | 66.7 | 66.9 | 66.9 | 67.4 | 67.6  |
| ≥ 5000          | 30.5                     | 47.3 | 52.3 | 57.7 | 61.6 | 65.0 | 68.5 | 70.5 | 70.5 | 71.0 | 71.1 | 71.2 | 71.4 | 71.4 | 71.9 | 72.1  |
| ≥ 4500          | 31.3                     | 48.3 | 53.4 | 58.8 | 62.8 | 66.3 | 69.7 | 72.0 | 72.0 | 72.5 | 72.7 | 72.7 | 73.0 | 73.0 | 73.5 | 73.7  |
| ≥ 4000          | 31.1                     | 49.2 | 54.5 | 61.1 | 64.3 | 67.9 | 71.6 | 73.8 | 73.8 | 74.3 | 74.7 | 74.8 | 75.0 | 75.0 | 75.5 | 75.7  |
| ≥ 3500          | 31.6                     | 49.9 | 55.4 | 61.3 | 65.4 | 69.1 | 73.0 | 75.2 | 75.2 | 75.7 | 76.1 | 76.2 | 76.3 | 76.3 | 76.8 | 77.1  |
| ≥ 3000          | 32.1                     | 50.7 | 56.2 | 62.1 | 66.4 | 70.5 | 74.3 | 77.1 | 77.1 | 77.6 | 78.0 | 78.1 | 78.2 | 78.2 | 78.7 | 79.0  |
| ≥ 2500          | 32.9                     | 51.8 | 57.4 | 63.4 | 67.6 | 72.2 | 76.1 | 79.0 | 79.0 | 79.6 | 80.0 | 80.1 | 80.2 | 80.2 | 80.7 | 80.9  |
| ≥ 2000          | 33.3                     | 52.6 | 58.4 | 64.4 | 68.6 | 73.5 | 77.7 | 80.8 | 80.8 | 81.4 | 81.9 | 82.1 | 82.2 | 82.2 | 82.7 | 82.9  |
| ≥ 1800          | 33.9                     | 53.4 | 59.5 | 65.5 | 69.9 | 74.8 | 79.3 | 82.4 | 82.4 | 83.1 | 83.6 | 83.7 | 83.8 | 83.8 | 84.3 | 84.6  |
| ≥ 1500          | 34.1                     | 54.2 | 60.4 | 66.4 | 70.7 | 76.0 | 80.4 | 83.6 | 83.7 | 84.3 | 84.9 | 85.1 | 85.2 | 85.2 | 85.7 | 85.9  |
| ≥ 1200          | 34.6                     | 54.8 | 61.0 | 67.0 | 71.5 | 76.8 | 81.3 | 84.6 | 84.7 | 85.4 | 86.1 | 86.2 | 86.3 | 86.3 | 86.8 | 87.0  |
| ≥ 1000          | 35.1                     | 55.3 | 61.6 | 67.6 | 72.4 | 77.7 | 82.2 | 85.7 | 85.8 | 86.7 | 87.4 | 87.5 | 87.8 | 87.8 | 88.3 | 88.5  |
| ≥ 900           | 35.1                     | 55.9 | 62.5 | 68.5 | 73.2 | 78.8 | 83.4 | 87.0 | 87.2 | 88.0 | 88.8 | 88.9 | 89.2 | 89.2 | 89.7 | 89.9  |
| ≥ 800           | 35.1                     | 56.4 | 63.1 | 69.1 | 74.0 | 79.7 | 84.3 | 87.9 | 88.0 | 88.9 | 89.8 | 89.9 | 90.2 | 90.2 | 90.7 | 90.9  |
| ≥ 700           | 35.2                     | 56.5 | 63.3 | 69.5 | 74.6 | 80.3 | 85.1 | 88.8 | 88.9 | 89.8 | 90.7 | 90.9 | 91.2 | 91.2 | 91.7 | 91.9  |
| ≥ 600           | 35.4                     | 56.7 | 63.4 | 69.7 | 75.0 | 80.7 | 85.7 | 89.4 | 89.5 | 90.5 | 91.4 | 91.7 | 91.9 | 91.9 | 92.4 | 92.7  |
| ≥ 500           | 35.4                     | 57.0 | 63.9 | 70.2 | 75.5 | 81.3 | 87.3 | 91.8 | 91.9 | 93.4 | 94.4 | 94.6 | 94.9 | 94.9 | 95.5 | 95.8  |
| ≥ 400           | 35.4                     | 57.0 | 64.0 | 70.4 | 75.6 | 81.7 | 88.0 | 92.8 | 92.9 | 94.6 | 95.8 | 96.0 | 96.3 | 96.3 | 97.0 | 97.3  |
| ≥ 300           | 35.4                     | 57.0 | 64.0 | 70.4 | 75.7 | 81.8 | 88.3 | 93.2 | 93.4 | 95.3 | 96.6 | 96.9 | 97.1 | 97.1 | 97.9 | 98.3  |
| ≥ 200           | 35.4                     | 57.0 | 64.0 | 70.4 | 75.8 | 82.1 | 88.5 | 93.4 | 93.6 | 95.5 | 97.0 | 97.3 | 97.8 | 97.8 | 98.6 | 99.3  |
| ≥ 100           | 35.4                     | 57.0 | 64.0 | 70.4 | 75.8 | 82.1 | 88.5 | 93.4 | 93.6 | 95.5 | 97.0 | 97.3 | 97.9 | 97.9 | 98.9 | 99.6  |
| ≥ 0             | 35.4                     | 57.0 | 64.0 | 70.4 | 75.8 | 82.1 | 88.5 | 93.4 | 93.6 | 95.5 | 97.0 | 97.3 | 97.9 | 97.9 | 98.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 803

USAF CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

1960-1969

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1960-1969

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.4  | ≥.3  | ≥.25 | ≥.2   | ≥.15  | ≥.1   |
| NO CEILING      | 21.0                     | 36.6 | 38.5 | 39.9 | 41.5 | 41.0 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2  | 41.2  | 41.2  |
| ≥ 20000         | 31.0                     | 42.4 | 45.6 | 47.3 | 48.0 | 48.9 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3  | 49.3  | 49.3  |
| IV 18000        | 31.0                     | 42.7 | 45.9 | 47.3 | 48.3 | 49.2 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6  | 49.6  | 49.6  |
| IV 16000        | 31.0                     | 42.7 | 45.9 | 47.3 | 48.3 | 49.2 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6  | 49.6  | 49.6  |
| IV 14000        | 31.1                     | 42.8 | 46.0 | 47.4 | 48.5 | 49.4 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8  | 49.8  | 49.8  |
| IV 12000        | 31.5                     | 43.7 | 46.9 | 48.3 | 49.7 | 51.6 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0 | 51.0  | 51.0  | 51.0  |
| IV 10000        | 33.3                     | 46.4 | 49.7 | 51.3 | 53.2 | 54.4 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0  | 55.0  | 55.0  |
| IV 9000         | 33.5                     | 46.8 | 50.1 | 51.7 | 53.6 | 54.8 | 55.5 | 55.5 | 55.5 | 55.5 | 55.5 | 55.5 | 55.5 | 55.5  | 55.5  | 55.5  |
| IV 8000         | 34.7                     | 48.5 | 52.1 | 54.0 | 56.0 | 57.8 | 59.0 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2 | 59.2  | 59.2  | 59.2  |
| IV 7000         | 35.5                     | 49.4 | 53.1 | 55.0 | 57.1 | 59.0 | 60.2 | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 | 60.5 | 60.5  | 60.5  | 60.5  |
| IV 6000         | 35.5                     | 49.4 | 53.2 | 55.1 | 57.2 | 59.5 | 60.7 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0 | 61.0  | 61.0  | 61.0  |
| IV 5000         | 35.2                     | 50.4 | 54.3 | 56.2 | 58.7 | 61.1 | 62.4 | 62.8 | 62.8 | 62.8 | 62.8 | 62.8 | 62.8 | 62.8  | 62.8  | 62.8  |
| IV 4500         | 36.0                     | 51.8 | 55.8 | 57.7 | 60.2 | 62.6 | 63.9 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4  | 64.4  | 64.4  |
| IV 4000         | 36.4                     | 53.6 | 57.6 | 59.5 | 62.3 | 64.8 | 66.2 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7 | 66.7  | 66.7  | 66.7  |
| IV 3500         | 40.5                     | 56.0 | 60.0 | 62.0 | 64.9 | 67.7 | 69.7 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8  | 69.8  | 69.8  |
| IV 3000         | 42.7                     | 59.2 | 63.7 | 65.8 | 68.7 | 71.7 | 73.2 | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 | 73.8 | 73.8  | 73.8  | 73.8  |
| IV 2500         | 45.2                     | 62.8 | 67.3 | 69.6 | 72.6 | 75.6 | 77.1 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8 | 77.8  | 77.8  | 77.8  |
| IV 2000         | 47.0                     | 65.6 | 70.4 | 72.8 | 76.0 | 80.1 | 82.0 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6 | 82.6  | 82.6  | 82.6  |
| IV 1800         | 47.8                     | 66.6 | 71.7 | 74.1 | 77.5 | 81.8 | 83.7 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4 | 84.4  | 84.4  | 84.4  |
| IV 1500         | 49.7                     | 68.9 | 74.1 | 76.7 | 80.7 | 85.1 | 87.2 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1 | 88.1  | 88.1  | 88.1  |
| IV 1200         | 49.5                     | 69.9 | 75.5 | 78.3 | 82.7 | 87.3 | 89.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5  | 90.5  | 90.5  |
| IV 1000         | 49.6                     | 71.0 | 75.6 | 78.4 | 83.0 | 87.9 | 90.3 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4  | 91.4  | 91.4  |
| IV 900          | 49.9                     | 71.6 | 76.4 | 79.5 | 84.5 | 89.7 | 92.2 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4  | 93.4  | 93.4  |
| IV 800          | 50.1                     | 72.9 | 76.6 | 80.2 | 85.4 | 91.3 | 93.5 | 94.7 | 94.7 | 94.7 | 94.8 | 94.8 | 94.8 | 94.8  | 94.8  | 94.8  |
| IV 700          | 50.2                     | 71.0 | 76.7 | 80.3 | 85.6 | 91.4 | 94.2 | 95.3 | 95.3 | 95.3 | 95.4 | 95.4 | 95.4 | 95.4  | 95.4  | 95.4  |
| IV 600          | 50.2                     | 71.3 | 77.0 | 80.6 | 85.9 | 92.5 | 95.3 | 96.6 | 96.6 | 96.6 | 96.7 | 96.7 | 96.7 | 96.7  | 96.7  | 96.7  |
| IV 500          | 50.2                     | 71.4 | 77.1 | 80.7 | 86.4 | 93.0 | 96.3 | 98.1 | 98.1 | 98.1 | 98.2 | 98.2 | 98.2 | 98.2  | 98.2  | 98.2  |
| IV 400          | 50.2                     | 71.4 | 77.1 | 80.7 | 86.7 | 93.5 | 97.0 | 98.9 | 98.9 | 99.1 | 99.2 | 99.2 | 99.2 | 99.2  | 99.2  | 99.2  |
| IV 300          | 50.2                     | 71.4 | 77.1 | 80.7 | 86.7 | 93.5 | 97.1 | 99.0 | 99.0 | 99.2 | 99.5 | 99.6 | 99.6 | 99.6  | 99.6  | 99.6  |
| IV 200          | 50.2                     | 71.4 | 77.1 | 80.7 | 86.7 | 93.6 | 97.2 | 99.1 | 99.1 | 99.4 | 99.6 | 99.7 | 99.9 | 100.0 | 100.0 | 100.0 |
| IV 100          | 50.2                     | 71.4 | 77.1 | 80.7 | 86.7 | 93.6 | 97.2 | 99.1 | 99.1 | 99.4 | 99.6 | 99.7 | 99.9 | 100.0 | 100.0 | 100.0 |
| IV 0            | 50.2                     | 71.4 | 77.1 | 80.7 | 86.7 | 93.6 | 97.2 | 99.1 | 99.1 | 99.4 | 99.6 | 99.7 | 99.9 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 787

U.S. AIR FORCE  
CLIMATE BRANCH  
ETAC  
WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-61

JULY

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

12-1-1957

| CEILING<br>FEET | VISIBILITY, STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                       | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.8  | ≥.6  | ≥.5  | ≥.4  | ≥.3  | ≥.2  |
| NO CEILING      | 24.5                      | 31.1 | 31.1 | 31.5 | 33.6 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 |
| ≥ 20000         | 3.5                       | 39.1 | 47.4 | 41.1 | 42.6 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 | 42.7 |
| ≥ 18000         | 31.6                      | 39.2 | 41.6 | 41.2 | 42.7 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 |
| ≥ 16000         | 31.6                      | 39.2 | 41.6 | 41.2 | 42.7 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 | 42.8 |
| ≥ 14000         | 30.7                      | 39.3 | 41.8 | 41.4 | 42.9 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 |
| ≥ 12000         | 31.5                      | 43.2 | 41.3 | 42.7 | 44.2 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 | 44.3 |
| ≥ 10000         | 34.3                      | 43.6 | 45.6 | 46.4 | 48.8 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 |
| ≥ 9000          | 34.3                      | 44.2 | 45.9 | 46.8 | 49.2 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 | 49.4 |
| ≥ 8000          | 35.5                      | 45.4 | 47.6 | 48.4 | 51.9 | 51.6 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 |
| ≥ 7000          | 35.9                      | 46.1 | 48.2 | 49.1 | 51.6 | 52.2 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 |
| ≥ 6000          | 35.5                      | 46.8 | 48.9 | 49.8 | 52.3 | 52.9 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 | 53.1 |
| ≥ 5000          | 37.2                      | 48.4 | 52.8 | 51.7 | 54.2 | 55.4 | 55.8 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 |
| ≥ 4500          | 38.8                      | 50.4 | 57.5 | 53.7 | 56.3 | 57.7 | 58.1 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 | 58.2 |
| ≥ 4000          | 47.1                      | 63.0 | 62.5 | 63.5 | 66.5 | 68.0 | 68.4 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 | 68.5 |
| ≥ 3500          | 52.6                      | 67.0 | 69.8 | 71.1 | 74.0 | 75.5 | 75.9 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 | 76.0 |
| ≥ 3000          | 54.7                      | 71.2 | 73.2 | 74.7 | 78.3 | 81.0 | 80.4 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 | 80.5 |
| ≥ 2500          | 56.3                      | 73.4 | 77.7 | 79.3 | 83.0 | 84.9 | 85.5 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 | 85.6 |
| ≥ 2000          | 57.1                      | 74.9 | 79.5 | 81.6 | 86.1 | 88.7 | 88.9 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 |
| ≥ 1800          | 57.2                      | 75.0 | 79.9 | 82.0 | 86.8 | 88.8 | 89.8 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 | 89.9 |
| ≥ 1500          | 57.7                      | 76.0 | 80.7 | 83.3 | 88.4 | 91.0 | 92.3 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 | 92.4 |
| ≥ 1200          | 58.7                      | 77.8 | 82.8 | 85.1 | 90.5 | 93.3 | 94.8 | 94.9 | 94.9 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 | 95.0 |
| ≥ 1000          | 58.9                      | 78.2 | 83.1 | 85.6 | 91.1 | 94.3 | 95.8 | 95.9 | 95.9 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 |
| ≥ 900           | 58.9                      | 78.4 | 83.5 | 86.1 | 91.8 | 94.9 | 96.4 | 96.9 | 96.9 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 |
| ≥ 800           | 58.9                      | 78.8 | 83.9 | 86.6 | 92.3 | 95.8 | 97.4 | 98.0 | 98.0 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 |
| ≥ 700           | 58.9                      | 78.9 | 84.1 | 86.9 | 92.6 | 96.1 | 97.8 | 98.6 | 98.6 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 |
| ≥ 600           | 58.9                      | 78.9 | 84.1 | 87.0 | 92.8 | 96.3 | 97.9 | 98.8 | 98.8 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 |
| ≥ 500           | 58.9                      | 79.0 | 84.1 | 87.1 | 93.1 | 96.8 | 98.4 | 99.3 | 99.3 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 |
| ≥ 400           | 58.9                      | 79.0 | 84.1 | 87.1 | 93.1 | 97.0 | 98.8 | 99.6 | 99.6 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| ≥ 300           | 58.9                      | 79.0 | 84.1 | 87.1 | 93.1 | 97.0 | 98.8 | 99.6 | 99.6 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| ≥ 200           | 58.9                      | 79.0 | 84.1 | 87.1 | 93.1 | 97.0 | 98.8 | 99.6 | 99.6 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| ≥ 100           | 58.9                      | 79.0 | 84.1 | 87.1 | 93.1 | 97.0 | 98.8 | 99.6 | 99.6 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| ≥ 0             | 58.9                      | 79.0 | 84.1 | 87.1 | 93.1 | 97.0 | 98.8 | 99.6 | 99.6 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |

TOTAL NUMBER OF OBSERVATIONS 801

FEDERAL CLIMATOLOGY BRANCH  
METAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

15.0-17.0  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.0 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥.0   |
| NO CEILING      | 38.7                     | 34.5 | 35.3 | 37.3 | 37.6 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 38.7  |
| ≥ 20000         | 34.5                     | 42.2 | 43.7 | 46.2 | 46.8 | 47.0 | 47.0 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.4  |
| ≥ 18000         | 34.5                     | 42.3 | 43.8 | 46.4 | 46.9 | 47.1 | 47.1 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.5  |
| ≥ 16000         | 34.5                     | 42.3 | 43.9 | 46.4 | 46.9 | 47.1 | 47.1 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4 | 47.5  |
| ≥ 14000         | 35.5                     | 42.9 | 44.5 | 47.1 | 47.5 | 47.8 | 47.8 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.2  |
| ≥ 12000         | 37.1                     | 45.2 | 46.8 | 49.4 | 49.9 | 51.3 | 51.3 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.7  |
| ≥ 10000         | 33.1                     | 46.6 | 48.7 | 51.3 | 52.2 | 52.7 | 52.7 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 | 53.0 | 53.1  |
| ≥ 9000          | 33.3                     | 46.9 | 48.9 | 51.7 | 52.6 | 53.1 | 53.1 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.5  |
| ≥ 8000          | 39.1                     | 48.0 | 50.1 | 53.0 | 54.9 | 54.5 | 54.8 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.0 | 55.2  |
| ≥ 7000          | 39.6                     | 48.7 | 50.7 | 53.6 | 54.5 | 55.3 | 55.5 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.8 | 55.9  |
| ≥ 6000          | 47.6                     | 49.7 | 51.7 | 54.8 | 55.7 | 56.4 | 56.7 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 57.1  |
| ≥ 5000          | 44.5                     | 54.1 | 56.8 | 59.5 | 60.6 | 61.4 | 61.7 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 62.2  |
| ≥ 4500          | 45.5                     | 57.3 | 59.9 | 62.2 | 64.7 | 65.5 | 65.7 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.0 | 66.1  |
| ≥ 4000          | 3.7                      | 65.9 | 68.7 | 72.2 | 74.6 | 75.8 | 76.3 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7 | 76.8  |
| ≥ 3500          | 54.9                     | 69.6 | 72.9 | 76.9 | 81.0 | 81.4 | 81.9 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.3 | 82.4  |
| ≥ 3000          | 56.9                     | 72.0 | 75.7 | 81.4 | 84.2 | 85.6 | 86.2 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.8 | 86.9  |
| ≥ 2500          | 57.6                     | 74.1 | 78.6 | 83.4 | 87.6 | 89.3 | 90.2 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.8  |
| ≥ 2000          | 58.2                     | 75.3 | 79.9 | 85.1 | 89.4 | 91.5 | 92.4 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.0 | 93.1  |
| ≥ 1800          | 58.9                     | 76.2 | 80.8 | 86.4 | 90.7 | 92.9 | 93.8 | 94.4 | 94.4 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.5 | 94.6  |
| ≥ 1500          | 59.2                     | 76.7 | 81.3 | 86.9 | 91.7 | 94.4 | 95.4 | 96.1 | 96.1 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.2 | 96.3  |
| ≥ 1200          | 59.4                     | 77.3 | 82.0 | 87.6 | 92.7 | 95.4 | 96.6 | 97.2 | 97.2 | 97.3 | 97.5 | 97.5 | 97.5 | 97.5 | 97.5 | 97.6  |
| ≥ 1000          | 59.4                     | 77.5 | 82.2 | 87.8 | 92.9 | 95.5 | 96.7 | 97.3 | 97.3 | 97.5 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.8  |
| ≥ 900           | 59.4                     | 77.5 | 82.2 | 87.9 | 93.0 | 95.7 | 96.9 | 97.6 | 97.6 | 97.7 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.1  |
| ≥ 800           | 59.4                     | 77.5 | 82.2 | 87.9 | 93.0 | 95.7 | 97.1 | 97.7 | 97.7 | 97.8 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.2  |
| ≥ 700           | 59.4                     | 77.5 | 82.2 | 87.9 | 93.0 | 95.7 | 97.2 | 98.0 | 98.0 | 98.1 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 | 98.5  |
| ≥ 600           | 59.4                     | 77.7 | 82.4 | 88.3 | 93.5 | 96.3 | 98.0 | 98.7 | 98.7 | 98.9 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.2  |
| ≥ 500           | 59.4                     | 77.7 | 82.4 | 88.4 | 93.6 | 96.6 | 98.3 | 99.1 | 99.1 | 99.2 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.6  |
| ≥ 400           | 59.4                     | 77.7 | 82.4 | 88.4 | 93.8 | 96.7 | 98.5 | 99.2 | 99.2 | 99.6 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 100.0 |
| ≥ 300           | 59.4                     | 77.7 | 82.4 | 88.4 | 93.8 | 96.7 | 98.5 | 99.2 | 99.2 | 99.6 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 100.0 |
| ≥ 200           | 59.4                     | 77.7 | 82.4 | 88.4 | 93.8 | 96.7 | 98.5 | 99.2 | 99.2 | 99.6 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 100.0 |
| ≥ 100           | 59.4                     | 77.7 | 82.4 | 88.4 | 93.8 | 96.7 | 98.5 | 99.2 | 99.2 | 99.6 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 100.0 |
| ≥ 0             | 59.4                     | 77.7 | 82.4 | 88.4 | 93.8 | 96.7 | 98.5 | 99.2 | 99.2 | 99.6 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 785

USAF ETAC

FORM  
JUL 64

0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

AL CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION

YOUNGSTOWN MAP OH

73-81

YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥.5   | ≥.25  | ≥.1   | ≥.05  | ≥.01  | ≥.005 | ≥.001 |
| NO CEILING      | 35.6                     | 42.9 | 44.9 | 47.7 | 48.3 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  | 48.8  |
| ≥ 20000         | 42.1                     | 53.7 | 55.3 | 59.4 | 61.6 | 61.6 | 62.0 | 62.0 | 62.0 | 62.0  | 62.0  | 62.0  | 62.0  | 62.0  | 62.0  | 62.0  |
| ≥ 18000         | 42.1                     | 53.7 | 55.3 | 59.4 | 61.6 | 61.6 | 62.0 | 62.0 | 62.0 | 62.0  | 62.0  | 62.0  | 62.0  | 62.0  | 62.0  | 62.0  |
| ≥ 16000         | 42.1                     | 53.7 | 55.3 | 59.4 | 61.6 | 61.6 | 62.0 | 62.0 | 62.0 | 62.0  | 62.0  | 62.0  | 62.0  | 62.0  | 62.0  | 62.0  |
| ≥ 14000         | 42.5                     | 53.6 | 56.1 | 60.0 | 61.3 | 62.3 | 62.6 | 62.6 | 62.6 | 62.6  | 62.6  | 62.6  | 62.6  | 62.6  | 62.6  | 62.6  |
| ≥ 12000         | 43.0                     | 55.1 | 57.6 | 61.9 | 63.1 | 64.2 | 64.5 | 64.5 | 64.5 | 64.5  | 64.5  | 64.5  | 64.5  | 64.5  | 64.5  | 64.5  |
| ≥ 10000         | 47.0                     | 59.2 | 62.3 | 67.0 | 68.3 | 69.4 | 69.8 | 69.8 | 69.8 | 69.8  | 69.8  | 69.8  | 69.8  | 69.8  | 69.8  | 69.8  |
| ≥ 9000          | 47.3                     | 59.6 | 62.6 | 67.4 | 68.7 | 69.8 | 70.2 | 70.2 | 70.2 | 70.2  | 70.2  | 70.2  | 70.2  | 70.2  | 70.2  | 70.2  |
| ≥ 8000          | 48.4                     | 61.4 | 64.7 | 69.6 | 70.9 | 72.1 | 72.5 | 72.5 | 72.5 | 72.5  | 72.5  | 72.5  | 72.5  | 72.5  | 72.5  | 72.5  |
| ≥ 7000          | 48.7                     | 62.1 | 65.4 | 70.3 | 71.8 | 73.0 | 73.5 | 73.5 | 73.5 | 73.5  | 73.5  | 73.5  | 73.5  | 73.5  | 73.5  | 73.5  |
| ≥ 6000          | 51.1                     | 63.5 | 66.8 | 71.7 | 73.2 | 74.3 | 74.8 | 74.8 | 74.8 | 74.8  | 74.8  | 74.8  | 74.8  | 74.8  | 74.8  | 74.8  |
| ≥ 5000          | 53.2                     | 68.4 | 71.8 | 77.7 | 79.2 | 80.6 | 81.3 | 81.4 | 81.4 | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  | 81.4  |
| ≥ 4500          | 54.1                     | 69.4 | 73.2 | 79.2 | 81.8 | 82.1 | 82.8 | 82.9 | 82.9 | 82.9  | 82.9  | 82.9  | 82.9  | 82.9  | 82.9  | 82.9  |
| ≥ 4000          | 55.8                     | 71.9 | 76.4 | 82.8 | 84.8 | 86.2 | 86.8 | 86.9 | 86.9 | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  | 86.9  |
| ≥ 3500          | 56.6                     | 73.3 | 78.1 | 84.8 | 86.9 | 88.3 | 88.9 | 89.1 | 89.1 | 89.1  | 89.1  | 89.1  | 89.1  | 89.1  | 89.1  | 89.1  |
| ≥ 3000          | 57.7                     | 74.7 | 80.0 | 86.7 | 89.1 | 91.1 | 91.8 | 91.9 | 91.9 | 91.9  | 91.9  | 91.9  | 91.9  | 91.9  | 91.9  | 91.9  |
| ≥ 2500          | 58.4                     | 75.8 | 81.3 | 88.4 | 90.9 | 93.0 | 94.2 | 94.3 | 94.3 | 94.3  | 94.3  | 94.3  | 94.3  | 94.3  | 94.3  | 94.3  |
| ≥ 2000          | 58.6                     | 76.2 | 81.8 | 89.1 | 91.7 | 93.8 | 95.1 | 95.3 | 95.5 | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  | 95.5  |
| ≥ 1800          | 58.6                     | 76.2 | 82.3 | 89.6 | 92.3 | 94.5 | 95.8 | 96.1 | 96.2 | 96.2  | 96.2  | 96.2  | 96.2  | 96.2  | 96.2  | 96.2  |
| ≥ 1500          | 58.9                     | 76.5 | 82.5 | 89.8 | 93.0 | 95.1 | 96.5 | 96.7 | 96.9 | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  |
| ≥ 1200          | 58.9                     | 76.5 | 82.5 | 89.8 | 93.0 | 95.2 | 96.6 | 96.9 | 97.0 | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  | 97.0  |
| ≥ 1000          | 58.9                     | 76.5 | 82.6 | 89.9 | 93.2 | 95.7 | 97.1 | 97.6 | 97.7 | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  | 97.7  |
| ≥ 900           | 58.9                     | 76.7 | 82.9 | 90.2 | 93.5 | 96.0 | 97.4 | 97.9 | 98.0 | 98.0  | 98.0  | 98.0  | 98.0  | 98.0  | 98.0  | 98.0  |
| ≥ 800           | 58.9                     | 76.7 | 82.9 | 90.2 | 93.5 | 96.0 | 97.4 | 97.9 | 98.0 | 98.0  | 98.0  | 98.0  | 98.0  | 98.0  | 98.0  | 98.0  |
| ≥ 700           | 58.9                     | 76.7 | 82.9 | 90.2 | 93.5 | 96.0 | 97.6 | 98.2 | 98.4 | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  |
| ≥ 600           | 58.9                     | 76.9 | 83.1 | 90.3 | 93.6 | 96.2 | 97.9 | 98.5 | 98.6 | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  | 98.6  |
| ≥ 500           | 58.9                     | 77.0 | 83.1 | 90.4 | 93.7 | 96.4 | 98.1 | 99.0 | 99.1 | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  |
| ≥ 400           | 58.9                     | 77.0 | 83.3 | 90.6 | 93.8 | 96.6 | 98.5 | 99.5 | 99.6 | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| ≥ 300           | 58.9                     | 77.0 | 83.3 | 90.6 | 93.8 | 96.6 | 98.6 | 99.7 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 200           | 58.9                     | 77.0 | 83.3 | 90.6 | 93.8 | 96.6 | 98.6 | 99.7 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 100           | 58.9                     | 77.0 | 83.3 | 90.6 | 93.8 | 96.6 | 98.6 | 99.7 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 0             | 58.9                     | 77.7 | 83.3 | 90.6 | 93.8 | 96.6 | 98.6 | 99.7 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 795

JOINT CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

75  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-61  
YEARS

JUN  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS LST

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |       |       |        |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|--------|-------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼   | ≥ 1/8 | ≥ 1/16 | ≥ 0   |
| NO CEILING      | 33.1                     | 47.4 | 50.0 | 52.5 | 54.6 | 54.6 | 54.6 | 55.0 | 55.0 | 55.2 | 55.4 | 55.4 | 55.4  | 55.4  | 55.4   | 55.4  |
| ≥ 20000         | 40.6                     | 51.8 | 54.5 | 57.6 | 60.4 | 60.8 | 61.2 | 61.6 | 61.6 | 61.7 | 62.1 | 62.1 | 62.1  | 62.1  | 62.1   | 62.1  |
| ≥ 18000         | 40.9                     | 51.8 | 54.5 | 57.6 | 60.4 | 60.8 | 61.2 | 61.6 | 61.6 | 61.7 | 62.1 | 62.1 | 62.1  | 62.1  | 62.1   | 62.1  |
| ≥ 16000         | 40.9                     | 51.8 | 54.5 | 57.6 | 60.4 | 60.8 | 61.2 | 61.6 | 61.6 | 61.7 | 62.1 | 62.1 | 62.1  | 62.1  | 62.1   | 62.1  |
| ≥ 14000         | 40.9                     | 51.9 | 54.6 | 57.8 | 60.5 | 60.9 | 61.3 | 61.7 | 61.7 | 61.9 | 62.3 | 62.3 | 62.3  | 62.3  | 62.3   | 62.3  |
| ≥ 12000         | 41.3                     | 52.6 | 55.3 | 58.7 | 61.4 | 61.9 | 62.3 | 62.7 | 62.7 | 62.8 | 63.2 | 63.2 | 63.2  | 63.2  | 63.2   | 63.2  |
| ≥ 10000         | 43.7                     | 55.2 | 58.9 | 63.2 | 65.9 | 66.5 | 66.9 | 67.4 | 67.4 | 67.6 | 68.0 | 68.0 | 68.0  | 68.0  | 68.0   | 68.3  |
| ≥ 9000          | 44.0                     | 55.9 | 59.7 | 64.2 | 67.0 | 67.6 | 68.0 | 68.5 | 68.5 | 68.7 | 69.1 | 69.1 | 69.1  | 69.1  | 69.1   | 69.1  |
| ≥ 8000          | 45.7                     | 58.0 | 61.9 | 66.3 | 69.5 | 70.0 | 70.7 | 71.3 | 71.3 | 71.4 | 71.8 | 71.8 | 71.8  | 71.8  | 71.8   | 71.8  |
| ≥ 7000          | 45.4                     | 59.0 | 62.9 | 67.7 | 70.8 | 71.4 | 72.3 | 73.2 | 73.2 | 73.3 | 73.7 | 73.7 | 73.7  | 73.7  | 73.7   | 73.7  |
| ≥ 6000          | 46.0                     | 60.1 | 64.0 | 68.8 | 71.9 | 72.5 | 73.6 | 74.4 | 74.4 | 74.5 | 74.9 | 74.9 | 74.9  | 74.9  | 74.9   | 74.9  |
| ≥ 5000          | 48.9                     | 64.6 | 69.5 | 74.4 | 77.9 | 78.5 | 79.6 | 80.4 | 80.4 | 80.5 | 80.9 | 80.9 | 80.9  | 80.9  | 80.9   | 80.9  |
| IV 4500         | 50.1                     | 67.2 | 72.2 | 77.4 | 80.9 | 81.6 | 82.7 | 83.5 | 83.5 | 83.7 | 84.1 | 84.1 | 84.1  | 84.1  | 84.1   | 84.1  |
| IV 4000         | 51.5                     | 69.5 | 75.1 | 80.7 | 84.3 | 85.1 | 86.2 | 87.1 | 87.1 | 87.2 | 87.6 | 87.6 | 87.6  | 87.6  | 87.6   | 87.6  |
| IV 3500         | 52.2                     | 70.9 | 76.8 | 82.8 | 86.5 | 87.3 | 88.7 | 89.5 | 89.5 | 89.6 | 90.2 | 90.2 | 90.2  | 90.2  | 90.2   | 90.2  |
| IV 3000         | 53.3                     | 72.8 | 78.9 | 84.9 | 88.6 | 89.5 | 90.9 | 91.7 | 91.7 | 91.8 | 92.4 | 92.4 | 92.4  | 92.4  | 92.4   | 92.4  |
| IV 2500         | 53.3                     | 73.0 | 79.3 | 86.4 | 90.1 | 91.0 | 92.5 | 93.3 | 93.3 | 93.5 | 94.0 | 94.0 | 94.0  | 94.0  | 94.0   | 94.0  |
| IV 2000         | 53.3                     | 73.2 | 80.2 | 87.2 | 91.9 | 91.8 | 93.5 | 94.3 | 94.3 | 94.4 | 95.1 | 95.1 | 95.1  | 95.1  | 95.1   | 95.1  |
| IV 1800         | 53.3                     | 73.3 | 80.4 | 87.5 | 91.1 | 92.1 | 93.7 | 94.6 | 94.6 | 94.7 | 95.4 | 95.4 | 95.4  | 95.4  | 95.4   | 95.4  |
| IV 1500         | 53.4                     | 73.7 | 80.8 | 88.3 | 92.1 | 93.1 | 94.7 | 95.5 | 95.5 | 95.6 | 96.3 | 96.3 | 96.3  | 96.3  | 96.3   | 96.3  |
| IV 1200         | 53.4                     | 74.3 | 81.5 | 89.2 | 93.1 | 94.0 | 95.6 | 96.6 | 96.6 | 96.7 | 97.4 | 97.4 | 97.4  | 97.4  | 97.4   | 97.4  |
| IV 1000         | 53.4                     | 74.7 | 81.9 | 89.6 | 93.5 | 94.4 | 96.0 | 97.0 | 97.0 | 97.1 | 97.8 | 97.8 | 97.8  | 97.8  | 97.8   | 97.8  |
| IV 900          | 53.4                     | 74.8 | 82.0 | 89.8 | 93.6 | 94.6 | 96.2 | 97.3 | 97.3 | 97.4 | 98.1 | 98.1 | 98.1  | 98.1  | 98.1   | 98.1  |
| IV 800          | 53.4                     | 74.8 | 82.2 | 89.9 | 93.7 | 94.7 | 96.3 | 97.4 | 97.4 | 97.5 | 98.2 | 98.2 | 98.2  | 98.2  | 98.2   | 98.2  |
| IV 700          | 53.4                     | 75.1 | 82.4 | 90.2 | 94.0 | 95.0 | 96.6 | 97.7 | 97.7 | 97.8 | 98.5 | 98.5 | 98.5  | 98.5  | 98.5   | 98.5  |
| IV 600          | 53.4                     | 75.1 | 82.4 | 90.5 | 94.3 | 95.2 | 96.9 | 98.0 | 98.0 | 98.1 | 98.8 | 98.8 | 98.8  | 98.8  | 98.8   | 98.8  |
| IV 500          | 53.4                     | 75.1 | 82.7 | 90.7 | 94.6 | 95.5 | 97.1 | 98.2 | 98.2 | 98.4 | 99.0 | 99.0 | 99.0  | 99.0  | 99.0   | 99.0  |
| IV 400          | 53.4                     | 75.3 | 83.0 | 91.0 | 94.8 | 95.8 | 97.4 | 98.5 | 98.5 | 98.6 | 99.3 | 99.3 | 99.3  | 99.3  | 99.3   | 99.3  |
| IV 300          | 53.4                     | 75.3 | 83.1 | 91.1 | 95.0 | 95.9 | 97.5 | 98.8 | 98.8 | 98.9 | 99.6 | 99.6 | 99.6  | 99.6  | 99.6   | 99.6  |
| IV 200          | 53.4                     | 75.3 | 83.1 | 91.1 | 95.0 | 95.9 | 97.5 | 98.8 | 98.8 | 98.9 | 99.6 | 99.6 | 99.6  | 99.6  | 99.6   | 99.6  |
| IV 100          | 53.4                     | 75.3 | 83.1 | 91.1 | 95.0 | 95.9 | 97.5 | 98.8 | 98.8 | 99.2 | 99.9 | 99.9 | 100.0 | 100.0 | 100.0  | 100.0 |
| IV 0            | 53.4                     | 75.3 | 83.1 | 91.1 | 95.0 | 95.9 | 97.5 | 98.8 | 98.8 | 99.2 | 99.9 | 99.9 | 100.0 | 100.0 | 100.0  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 734

GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/HAC

# CEILING VERSUS VISIBILITY

STATION 25 YOUNGSTOWN MAP OH

73-81

YEARS

JUN

ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥.15 | ≥.1   |
| NO CEILING      | 29.7                       | 38.6 | 41.0 | 43.6 | 45.1 | 45.7 | 46.1 | 46.6 | 46.6 | 46.7 | 46.7 | 46.7 | 46.9 | 46.9 | 47.0 | 47.1  |
| ≥ 20000         | 33.5                       | 44.3 | 47.2 | 57.3 | 52.2 | 53.0 | 53.6 | 54.2 | 54.2 | 54.3 | 54.3 | 54.3 | 54.5 | 54.6 | 54.7 | 54.7  |
| IV 18000        | 33.6                       | 44.4 | 47.3 | 50.4 | 52.3 | 53.0 | 53.7 | 54.2 | 54.2 | 54.3 | 54.4 | 54.4 | 54.6 | 54.6 | 54.7 | 54.8  |
| IV 16000        | 33.5                       | 44.4 | 47.3 | 50.4 | 52.3 | 53.0 | 53.7 | 54.2 | 54.2 | 54.3 | 54.4 | 54.4 | 54.6 | 54.6 | 54.7 | 54.8  |
| IV 14000        | 33.3                       | 44.7 | 47.6 | 50.7 | 52.6 | 53.4 | 54.0 | 54.6 | 54.6 | 54.7 | 54.8 | 54.8 | 54.9 | 55.0 | 55.1 | 55.1  |
| IV 12000        | 34.5                       | 45.9 | 48.6 | 52.1 | 54.1 | 54.9 | 55.6 | 56.2 | 56.2 | 56.3 | 56.4 | 56.4 | 56.5 | 56.6 | 56.7 | 56.8  |
| IV 10000        | 36.4                       | 42.5 | 51.8 | 55.4 | 57.8 | 58.8 | 59.5 | 60.1 | 60.1 | 60.2 | 60.3 | 60.3 | 60.4 | 60.5 | 60.6 | 60.7  |
| IV 9000         | 36.8                       | 49.0 | 52.3 | 56.0 | 58.4 | 59.3 | 60.2 | 60.7 | 60.7 | 60.8 | 60.9 | 60.9 | 61.0 | 61.1 | 61.2 | 61.3  |
| IV 8000         | 37.7                       | 50.7 | 54.2 | 58.0 | 67.6 | 61.9 | 62.8 | 63.5 | 63.5 | 63.6 | 63.6 | 63.6 | 63.8 | 63.9 | 64.0 | 64.0  |
| IV 7000         | 38.4                       | 51.6 | 55.2 | 59.1 | 61.7 | 63.0 | 64.1 | 64.8 | 64.8 | 64.9 | 65.0 | 65.0 | 65.2 | 65.3 | 65.3 | 65.4  |
| IV 6000         | 39.0                       | 52.3 | 55.9 | 59.8 | 62.5 | 63.8 | 64.9 | 65.6 | 65.6 | 65.8 | 65.9 | 65.9 | 66.0 | 66.1 | 66.2 | 66.3  |
| IV 5000         | 40.9                       | 55.2 | 59.1 | 63.5 | 66.4 | 68.0 | 69.3 | 70.1 | 70.1 | 70.2 | 70.3 | 70.3 | 70.5 | 70.6 | 70.7 | 70.8  |
| IV 4500         | 41.7                       | 56.9 | 61.0 | 65.4 | 68.4 | 70.1 | 71.4 | 72.2 | 72.3 | 72.4 | 72.5 | 72.5 | 72.7 | 72.7 | 72.8 | 72.9  |
| IV 4000         | 44.5                       | 60.8 | 65.3 | 70.1 | 73.4 | 75.1 | 76.6 | 77.5 | 77.5 | 77.6 | 77.7 | 77.8 | 77.9 | 78.0 | 78.1 | 78.2  |
| IV 3500         | 46.1                       | 63.1 | 67.9 | 73.0 | 76.5 | 78.3 | 79.8 | 80.7 | 80.8 | 80.9 | 81.0 | 81.1 | 81.2 | 81.3 | 81.4 | 81.5  |
| IV 3000         | 47.4                       | 65.0 | 70.2 | 75.4 | 79.1 | 81.2 | 82.8 | 83.8 | 83.8 | 83.9 | 84.1 | 84.1 | 84.3 | 84.3 | 84.4 | 84.5  |
| IV 2500         | 48.3                       | 66.8 | 72.3 | 77.8 | 81.6 | 83.9 | 85.6 | 86.6 | 86.6 | 86.7 | 86.9 | 86.9 | 87.1 | 87.1 | 87.2 | 87.3  |
| IV 2000         | 48.9                       | 67.9 | 73.7 | 79.4 | 83.4 | 85.9 | 87.8 | 88.9 | 88.9 | 89.1 | 89.3 | 89.3 | 89.5 | 89.5 | 89.6 | 89.7  |
| IV 1800         | 49.2                       | 68.4 | 74.3 | 80.1 | 84.3 | 86.8 | 88.8 | 89.9 | 89.9 | 90.1 | 90.3 | 90.3 | 90.5 | 90.5 | 90.7 | 90.8  |
| IV 1500         | 49.6                       | 69.1 | 75.1 | 81.1 | 85.5 | 88.2 | 90.3 | 91.5 | 91.5 | 91.7 | 91.9 | 91.9 | 92.1 | 92.1 | 92.3 | 92.4  |
| IV 1200         | 49.9                       | 69.8 | 75.9 | 82.0 | 86.5 | 89.3 | 91.5 | 92.7 | 92.7 | 93.0 | 93.2 | 93.2 | 93.4 | 93.4 | 93.6 | 93.7  |
| IV 1000         | 50.0                       | 70.1 | 76.3 | 82.3 | 87.0 | 89.9 | 92.1 | 93.4 | 93.5 | 93.7 | 94.0 | 94.0 | 94.2 | 94.2 | 94.3 | 94.4  |
| IV 900          | 50.0                       | 70.3 | 76.7 | 82.9 | 87.6 | 90.6 | 92.8 | 94.2 | 94.3 | 94.5 | 94.8 | 94.8 | 95.0 | 95.0 | 95.2 | 95.3  |
| IV 800          | 50.1                       | 70.6 | 77.0 | 83.3 | 88.1 | 91.2 | 93.5 | 95.0 | 95.0 | 95.2 | 95.5 | 95.5 | 95.8 | 95.8 | 95.9 | 96.0  |
| IV 700          | 50.1                       | 70.7 | 77.1 | 83.5 | 88.4 | 91.5 | 93.9 | 95.5 | 95.5 | 95.8 | 96.0 | 96.1 | 96.3 | 96.3 | 96.5 | 96.6  |
| IV 600          | 50.1                       | 70.8 | 77.3 | 83.8 | 88.7 | 92.0 | 94.5 | 96.0 | 96.1 | 96.4 | 96.6 | 96.7 | 96.9 | 96.9 | 97.1 | 97.2  |
| IV 500          | 50.1                       | 70.9 | 77.5 | 84.1 | 89.1 | 92.4 | 95.2 | 97.0 | 97.1 | 97.4 | 97.7 | 97.8 | 98.0 | 98.0 | 98.2 | 98.3  |
| IV 400          | 50.1                       | 71.0 | 77.6 | 84.3 | 89.3 | 92.8 | 95.8 | 97.6 | 97.7 | 98.1 | 98.4 | 98.5 | 98.7 | 98.7 | 98.9 | 99.0  |
| IV 300          | 50.1                       | 71.0 | 77.7 | 84.3 | 89.5 | 92.9 | 96.0 | 98.0 | 98.0 | 98.5 | 98.9 | 99.0 | 99.2 | 99.3 | 99.4 | 99.5  |
| IV 200          | 50.1                       | 71.0 | 77.7 | 84.3 | 89.5 | 93.0 | 96.0 | 98.0 | 98.1 | 98.6 | 99.0 | 99.1 | 99.3 | 99.4 | 99.6 | 99.7  |
| IV 100          | 50.1                       | 71.0 | 77.7 | 84.3 | 89.5 | 93.0 | 96.0 | 98.0 | 98.1 | 98.6 | 99.1 | 99.1 | 99.4 | 99.5 | 99.7 | 99.9  |
| IV 0            | 50.1                       | 71.0 | 77.7 | 84.3 | 89.5 | 93.0 | 96.0 | 98.0 | 98.1 | 98.6 | 99.1 | 99.1 | 99.4 | 99.5 | 99.7 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 6118

CLIMATE CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-80

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-2200  
HOURS

| CEILING<br>FEET | VISIBILITY: STATUTE MILES |      |      |      |      |       |      |       |       |      |      |      |      |       |      |       |
|-----------------|---------------------------|------|------|------|------|-------|------|-------|-------|------|------|------|------|-------|------|-------|
|                 | ≥ 10                      | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .5 | ≥ .4 | ≥ .3 | ≥ .25 | ≥ .2 | ≥ .1  |
| NO CEILING      | 31.2                      | 46.5 | 51.7 | 56.5 | 59.6 | 59.6  | 61.6 | 61.7  | 61.7  | 62.0 | 62.4 | 62.4 | 62.8 | 62.8  | 62.8 | 63.2  |
| ≥ 20000         | 31.7                      | 47.1 | 54.4 | 60.3 | 63.6 | 64.4  | 66.6 | 66.8  | 66.8  | 67.4 | 67.9 | 67.9 | 68.3 | 68.3  | 68.3 | 68.7  |
| ≥ 18000         | 31.7                      | 49.1 | 54.4 | 60.3 | 63.6 | 64.4  | 66.6 | 66.8  | 66.8  | 67.4 | 67.9 | 67.9 | 68.3 | 68.3  | 68.3 | 68.7  |
| ≥ 16000         | 31.7                      | 49.1 | 54.4 | 60.3 | 63.6 | 64.4  | 66.6 | 66.8  | 66.8  | 67.4 | 67.9 | 67.9 | 68.3 | 68.3  | 68.3 | 68.7  |
| ≥ 14000         | 31.7                      | 49.2 | 54.7 | 60.6 | 63.9 | 64.7  | 66.9 | 67.0  | 67.0  | 67.7 | 68.1 | 68.1 | 68.5 | 68.5  | 69.5 | 68.9  |
| ≥ 12000         | 31.7                      | 49.5 | 55.1 | 61.6 | 65.1 | 65.9  | 68.3 | 68.4  | 68.4  | 69.1 | 69.5 | 69.5 | 70.0 | 70.0  | 70.0 | 70.5  |
| ≥ 10000         | 33.5                      | 52.0 | 58.3 | 65.1 | 68.9 | 69.9  | 72.2 | 72.4  | 72.4  | 73.1 | 73.5 | 73.5 | 74.0 | 74.0  | 74.0 | 74.4  |
| ≥ 9000          | 33.1                      | 52.1 | 58.4 | 65.3 | 69.1 | 70.0  | 72.4 | 72.5  | 72.5  | 73.2 | 73.6 | 73.6 | 74.1 | 74.1  | 74.1 | 74.6  |
| ≥ 8000          | 34.3                      | 53.9 | 60.9 | 67.9 | 71.7 | 72.6  | 75.1 | 75.2  | 75.2  | 75.9 | 76.3 | 76.3 | 76.9 | 76.9  | 76.9 | 77.3  |
| ≥ 7000          | 34.6                      | 54.3 | 61.4 | 68.4 | 72.2 | 73.3  | 75.8 | 75.9  | 75.9  | 76.6 | 77.0 | 77.0 | 77.6 | 77.6  | 77.6 | 78.0  |
| ≥ 6000          | 34.7                      | 54.4 | 61.7 | 68.7 | 72.5 | 73.6  | 76.1 | 76.2  | 76.2  | 76.9 | 77.3 | 77.3 | 77.8 | 77.8  | 77.8 | 78.2  |
| ≥ 5000          | 35.7                      | 56.2 | 63.7 | 70.9 | 75.1 | 76.5  | 79.1 | 79.2  | 79.2  | 79.9 | 80.3 | 80.3 | 80.8 | 80.8  | 80.8 | 81.3  |
| ≥ 4500          | 37.1                      | 57.9 | 65.5 | 72.6 | 76.9 | 78.2  | 81.0 | 81.1  | 81.1  | 81.8 | 82.2 | 82.2 | 82.8 | 82.8  | 82.8 | 83.2  |
| ≥ 4000          | 38.4                      | 60.3 | 68.1 | 75.2 | 79.5 | 81.0  | 83.9 | 84.0  | 84.0  | 84.7 | 85.1 | 85.1 | 85.6 | 85.6  | 85.6 | 86.0  |
| ≥ 3500          | 39.3                      | 61.4 | 69.9 | 77.2 | 81.7 | 83.2  | 86.0 | 86.2  | 86.2  | 86.9 | 87.3 | 87.3 | 87.8 | 87.8  | 87.8 | 88.2  |
| ≥ 3000          | 39.3                      | 62.1 | 70.6 | 78.0 | 82.5 | 84.0  | 87.3 | 87.6  | 87.6  | 88.4 | 88.8 | 88.8 | 89.3 | 89.3  | 89.3 | 89.7  |
| ≥ 2500          | 39.4                      | 63.1 | 71.7 | 79.2 | 83.9 | 85.4  | 88.6 | 88.9  | 88.9  | 89.9 | 90.3 | 90.3 | 90.8 | 90.8  | 90.8 | 91.2  |
| ≥ 2000          | 39.4                      | 63.1 | 71.8 | 79.5 | 84.1 | 85.6  | 89.1 | 89.3  | 89.3  | 90.3 | 90.7 | 90.7 | 91.2 | 91.2  | 91.2 | 91.7  |
| ≥ 1800          | 39.4                      | 63.2 | 72.1 | 79.8 | 84.4 | 85.9  | 89.3 | 89.6  | 89.6  | 90.6 | 91.0 | 91.0 | 91.5 | 91.5  | 91.5 | 91.9  |
| ≥ 1500          | 39.4                      | 63.6 | 72.5 | 80.3 | 85.0 | 86.5  | 89.9 | 90.2  | 90.2  | 91.1 | 91.5 | 91.5 | 92.1 | 92.1  | 92.1 | 92.5  |
| ≥ 1200          | 39.4                      | 63.6 | 72.5 | 80.3 | 85.0 | 86.5  | 90.2 | 90.4  | 90.4  | 91.4 | 91.9 | 91.9 | 92.5 | 92.5  | 92.5 | 92.9  |
| ≥ 1000          | 39.4                      | 63.6 | 72.6 | 80.7 | 85.5 | 87.0  | 90.7 | 91.0  | 91.1  | 92.1 | 92.6 | 92.6 | 93.2 | 93.2  | 93.2 | 93.6  |
| ≥ 900           | 39.4                      | 63.6 | 73.1 | 81.4 | 86.2 | 87.7  | 91.5 | 91.8  | 91.9  | 92.9 | 93.4 | 93.4 | 94.0 | 94.0  | 94.0 | 94.4  |
| ≥ 800           | 39.4                      | 63.6 | 73.1 | 81.5 | 86.3 | 87.8  | 91.7 | 91.9  | 92.1  | 93.0 | 93.6 | 93.6 | 94.1 | 94.1  | 94.1 | 94.5  |
| ≥ 700           | 39.4                      | 63.9 | 73.7 | 82.5 | 87.4 | 88.9  | 92.9 | 93.3  | 93.4  | 94.4 | 94.9 | 94.9 | 95.5 | 95.5  | 95.5 | 95.9  |
| ≥ 600           | 39.4                      | 64.2 | 74.0 | 83.7 | 88.0 | 89.5  | 93.4 | 93.8  | 94.0  | 94.9 | 95.5 | 95.5 | 96.0 | 96.0  | 96.0 | 96.4  |
| ≥ 500           | 39.4                      | 64.2 | 74.0 | 83.2 | 88.1 | 89.6  | 94.3 | 94.8  | 94.9  | 95.9 | 96.4 | 96.4 | 97.0 | 97.0  | 97.0 | 97.4  |
| ≥ 400           | 39.4                      | 64.2 | 74.0 | 83.2 | 88.1 | 89.6  | 94.8 | 95.5  | 95.6  | 96.6 | 97.1 | 97.1 | 97.7 | 97.7  | 97.7 | 98.1  |
| ≥ 300           | 39.4                      | 64.2 | 74.0 | 83.3 | 88.2 | 89.7  | 95.1 | 95.8  | 95.9  | 97.3 | 97.8 | 97.8 | 98.4 | 98.4  | 98.4 | 98.8  |
| ≥ 200           | 39.4                      | 64.2 | 74.0 | 83.3 | 88.2 | 89.7  | 95.1 | 95.8  | 96.0  | 97.9 | 98.5 | 98.5 | 99.0 | 99.0  | 99.0 | 99.5  |
| ≥ 100           | 39.4                      | 64.2 | 74.0 | 83.3 | 88.2 | 89.7  | 95.1 | 95.8  | 96.0  | 97.9 | 98.5 | 98.5 | 99.3 | 99.3  | 99.3 | 99.7  |
| ≥ 0             | 39.4                      | 64.2 | 74.0 | 83.3 | 88.2 | 89.7  | 95.1 | 95.8  | 96.0  | 97.9 | 98.5 | 98.5 | 99.3 | 99.3  | 99.3 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 731



ALBANY CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0307-0500  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2  | ≥ 2  | ≥ 1  | ≥ 1  | ≥ 1  | ≥ 1  | ≥ 1  | ≥ 1  | ≥ 1  | ≥ 1  | ≥ 1   |
| NO CEILING      | 23.1                       | 35.6 | 47.5 | 46.9 | 50.5 | 52.0 | 54.6 | 55.4 | 55.5 | 57.4 | 58.0 | 58.0 | 58.9 | 58.9 | 59.2 | 59.8  |
| ≥ 20000         | 23.3                       | 36.8 | 47.7 | 49.2 | 52.9 | 55.4 | 58.3 | 60.2 | 60.3 | 62.3 | 62.9 | 62.9 | 63.8 | 63.8 | 64.1 | 64.7  |
| ≥ 18000         | 23.3                       | 36.3 | 42.7 | 49.4 | 53.1 | 55.5 | 58.4 | 60.3 | 60.4 | 62.5 | 63.0 | 63.0 | 64.0 | 64.0 | 64.3 | 64.8  |
| ≥ 16000         | 23.3                       | 36.3 | 42.7 | 49.4 | 53.1 | 55.5 | 58.4 | 60.3 | 60.4 | 62.5 | 63.0 | 63.0 | 64.0 | 64.0 | 64.3 | 64.8  |
| ≥ 14000         | 23.5                       | 37.4 | 42.6 | 49.9 | 53.6 | 56.2 | 59.1 | 61.0 | 61.1 | 63.2 | 63.7 | 63.7 | 64.7 | 64.7 | 64.9 | 65.5  |
| ≥ 12000         | 24.0                       | 38.2 | 43.9 | 51.4 | 55.4 | 58.1 | 61.0 | 63.0 | 63.2 | 65.2 | 65.8 | 65.8 | 66.7 | 66.7 | 67.0 | 67.5  |
| ≥ 10000         | 24.4                       | 39.7 | 46.0 | 53.9 | 58.0 | 63.8 | 63.8 | 66.0 | 66.2 | 68.2 | 68.8 | 68.8 | 69.7 | 69.7 | 70.0 | 70.5  |
| ≥ 9000          | 24.4                       | 39.8 | 46.1 | 54.0 | 59.1 | 61.0 | 64.0 | 66.2 | 66.3 | 68.3 | 68.9 | 68.9 | 69.8 | 69.8 | 70.1 | 70.7  |
| ≥ 8000          | 24.6                       | 40.8 | 47.6 | 55.8 | 60.2 | 63.0 | 66.4 | 68.6 | 68.8 | 70.9 | 71.5 | 71.5 | 72.4 | 72.4 | 72.7 | 73.3  |
| ≥ 7000          | 24.9                       | 41.2 | 48.2 | 56.5 | 60.8 | 63.7 | 67.1 | 69.3 | 69.4 | 71.6 | 72.2 | 72.2 | 73.1 | 73.1 | 73.4 | 73.9  |
| ≥ 6000          | 25.1                       | 41.3 | 48.4 | 56.9 | 61.3 | 64.1 | 67.5 | 69.7 | 69.8 | 72.0 | 72.6 | 72.6 | 73.5 | 73.5 | 73.8 | 74.4  |
| ≥ 5000          | 25.2                       | 42.8 | 51.5 | 59.1 | 63.7 | 66.6 | 70.1 | 72.3 | 72.4 | 74.6 | 75.2 | 75.2 | 76.1 | 76.1 | 76.4 | 76.9  |
| ≥ 4500          | 26.7                       | 43.8 | 51.6 | 60.4 | 65.1 | 69.2 | 72.0 | 74.2 | 74.4 | 76.5 | 77.1 | 77.1 | 78.0 | 78.0 | 78.3 | 78.9  |
| ≥ 4000          | 27.7                       | 44.2 | 52.1 | 61.7 | 65.6 | 69.2 | 73.5 | 75.9 | 76.0 | 78.2 | 78.7 | 78.7 | 79.7 | 79.7 | 79.9 | 80.5  |
| ≥ 3500          | 27.4                       | 45.0 | 53.1 | 62.2 | 66.8 | 70.5 | 74.9 | 77.2 | 77.4 | 79.7 | 80.2 | 80.2 | 81.2 | 81.2 | 81.4 | 82.0  |
| ≥ 3000          | 28.5                       | 46.5 | 55.4 | 65.1 | 69.7 | 73.4 | 78.2 | 80.5 | 80.6 | 83.1 | 83.6 | 83.6 | 84.6 | 84.6 | 84.9 | 85.4  |
| ≥ 2500          | 28.6                       | 46.9 | 55.8 | 65.6 | 70.3 | 73.9 | 78.7 | 81.0 | 81.2 | 83.6 | 84.2 | 84.2 | 85.1 | 85.1 | 85.4 | 85.9  |
| ≥ 2000          | 28.9                       | 47.5 | 56.3 | 66.2 | 70.9 | 74.8 | 79.5 | 81.9 | 82.0 | 84.4 | 85.0 | 85.0 | 85.9 | 85.9 | 86.2 | 86.8  |
| ≥ 1800          | 28.9                       | 47.5 | 56.3 | 66.3 | 71.1 | 74.9 | 79.7 | 82.0 | 82.1 | 84.6 | 85.1 | 85.1 | 86.1 | 86.1 | 86.4 | 86.9  |
| ≥ 1500          | 28.9                       | 47.5 | 56.5 | 66.6 | 71.4 | 75.3 | 80.1 | 82.4 | 82.5 | 85.0 | 85.5 | 85.5 | 86.5 | 86.5 | 86.8 | 87.3  |
| ≥ 1200          | 28.9                       | 47.7 | 56.9 | 67.4 | 72.2 | 76.1 | 81.0 | 83.4 | 83.5 | 85.9 | 86.6 | 86.6 | 87.6 | 87.6 | 87.9 | 88.4  |
| ≥ 1000          | 28.9                       | 47.9 | 57.0 | 67.7 | 72.4 | 76.4 | 81.6 | 83.9 | 84.0 | 86.5 | 87.2 | 87.2 | 88.1 | 88.1 | 88.4 | 88.9  |
| ≥ 900           | 29.1                       | 48.3 | 57.7 | 68.5 | 73.5 | 77.5 | 82.8 | 85.1 | 85.3 | 87.7 | 88.4 | 88.4 | 89.4 | 89.4 | 89.6 | 90.2  |
| ≥ 800           | 29.2                       | 48.7 | 58.1 | 69.3 | 74.4 | 78.7 | 84.0 | 86.4 | 86.5 | 88.9 | 89.6 | 89.6 | 90.6 | 90.6 | 90.9 | 91.4  |
| ≥ 700           | 29.3                       | 49.1 | 58.7 | 70.0 | 75.0 | 79.7 | 85.1 | 87.6 | 87.7 | 90.2 | 91.0 | 91.0 | 92.0 | 92.0 | 92.2 | 92.8  |
| ≥ 600           | 29.3                       | 49.2 | 58.9 | 70.5 | 75.6 | 80.2 | 85.9 | 88.4 | 88.5 | 91.0 | 91.8 | 91.8 | 92.8 | 92.8 | 93.0 | 93.6  |
| ≥ 500           | 29.3                       | 49.2 | 58.9 | 70.5 | 75.6 | 80.4 | 86.4 | 88.8 | 88.9 | 91.7 | 92.5 | 92.5 | 93.5 | 93.5 | 93.7 | 94.3  |
| ≥ 400           | 29.3                       | 49.2 | 58.9 | 70.9 | 76.3 | 81.0 | 87.4 | 90.0 | 90.2 | 93.0 | 93.9 | 93.9 | 94.8 | 94.8 | 95.1 | 95.6  |
| ≥ 300           | 29.3                       | 49.2 | 58.9 | 71.1 | 76.4 | 81.2 | 87.9 | 90.7 | 91.3 | 94.8 | 95.6 | 95.6 | 96.6 | 96.6 | 96.9 | 97.4  |
| ≥ 200           | 29.3                       | 49.2 | 58.9 | 71.1 | 76.4 | 81.2 | 87.9 | 90.9 | 91.4 | 95.2 | 96.0 | 96.0 | 97.0 | 97.0 | 97.3 | 97.8  |
| ≥ 100           | 29.3                       | 49.2 | 58.9 | 71.1 | 76.4 | 81.2 | 87.9 | 91.0 | 91.5 | 95.4 | 96.2 | 96.2 | 97.3 | 97.4 | 97.8 | 98.6  |
| ≥ 0             | 29.3                       | 49.2 | 58.9 | 71.1 | 76.4 | 81.2 | 87.9 | 91.0 | 91.5 | 95.4 | 96.2 | 96.2 | 97.3 | 97.4 | 97.8 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 733

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

5600-5800  
HOURS (LT)

| CEILING<br>(FEET) | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|
|                   | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2½  | ≥2   | ≥1½  | ≥1¼  | ≥1   | ≥¾   | ≥½   | ≥¼   | ≥1/8 | ≥1/16 | ≥0   |
| NO CEILING        | 29.8                       | 29.8 | 32.3 | 36.0 | 39.0 | 42.3 | 47.1 | 49.5 | 49.5 | 51.3 | 51.7 | 51.7 | 51.8 | 51.8 | 52.1  | 52.8 |
| ≥ 20000           | 22.3                       | 32.0 | 35.0 | 39.3 | 42.7 | 46.6 | 52.1 | 55.5 | 55.5 | 57.6 | 57.9 | 57.9 | 58.2 | 58.2 | 58.4  | 59.4 |
| ≥ 18000           | 22.3                       | 32.0 | 35.0 | 39.3 | 42.7 | 46.7 | 52.2 | 55.6 | 55.6 | 57.7 | 58.0 | 58.0 | 58.3 | 58.3 | 58.5  | 59.5 |
| ≥ 16000           | 22.3                       | 32.0 | 35.0 | 39.3 | 42.7 | 46.7 | 52.2 | 55.6 | 55.6 | 57.7 | 58.0 | 58.0 | 58.3 | 58.3 | 58.5  | 59.5 |
| ≥ 14000           | 22.7                       | 32.4 | 35.5 | 39.8 | 43.3 | 47.3 | 52.8 | 56.2 | 56.2 | 58.3 | 58.7 | 58.7 | 58.9 | 58.9 | 59.1  | 60.1 |
| ≥ 12000           | 24.3                       | 34.1 | 37.6 | 41.8 | 45.4 | 49.4 | 55.2 | 58.8 | 58.8 | 61.0 | 61.5 | 61.5 | 61.8 | 61.8 | 62.1  | 63.0 |
| ≥ 10000           | 24.9                       | 35.6 | 39.5 | 44.1 | 47.9 | 52.6 | 58.7 | 62.4 | 62.4 | 64.6 | 65.1 | 65.1 | 65.5 | 65.5 | 65.7  | 66.7 |
| ≥ 9000            | 25.2                       | 37.1 | 41.1 | 45.7 | 49.6 | 54.5 | 60.9 | 65.0 | 65.0 | 67.3 | 67.8 | 67.8 | 68.2 | 68.2 | 68.4  | 69.4 |
| ≥ 8000            | 25.4                       | 37.3 | 41.7 | 46.3 | 50.4 | 55.2 | 62.2 | 66.3 | 66.3 | 68.7 | 69.1 | 69.1 | 69.5 | 69.5 | 69.8  | 70.7 |
| ≥ 7000            | 25.4                       | 37.4 | 42.0 | 46.6 | 50.7 | 55.6 | 62.6 | 66.8 | 66.8 | 69.1 | 69.6 | 69.6 | 70.0 | 70.0 | 70.2  | 71.2 |
| ≥ 6000            | 26.1                       | 39.4 | 43.0 | 47.8 | 52.0 | 57.3 | 64.6 | 69.0 | 69.0 | 71.5 | 72.0 | 72.0 | 72.3 | 72.3 | 72.6  | 73.5 |
| ≥ 5000            | 26.7                       | 39.0 | 44.3 | 49.3 | 53.4 | 58.9 | 66.2 | 70.7 | 70.7 | 73.2 | 73.7 | 73.7 | 74.0 | 74.0 | 74.3  | 75.2 |
| ≥ 4500            | 27.1                       | 39.8 | 45.2 | 50.4 | 54.5 | 60.2 | 67.8 | 72.8 | 72.8 | 75.2 | 75.9 | 75.9 | 76.2 | 76.2 | 76.5  | 77.4 |
| ≥ 4000            | 27.3                       | 40.1 | 45.7 | 51.1 | 55.4 | 61.2 | 68.8 | 73.9 | 73.9 | 76.3 | 77.0 | 77.0 | 77.3 | 77.3 | 77.6  | 78.5 |
| ≥ 3500            | 28.2                       | 41.0 | 46.7 | 52.1 | 56.6 | 62.7 | 70.5 | 75.6 | 75.6 | 78.0 | 78.7 | 78.7 | 79.0 | 79.0 | 79.3  | 80.2 |
| ≥ 3000            | 28.2                       | 41.0 | 46.8 | 52.6 | 57.1 | 63.4 | 71.2 | 76.5 | 76.5 | 78.9 | 79.5 | 79.5 | 79.9 | 79.9 | 80.1  | 81.1 |
| ≥ 2500            | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 2000            | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 1800            | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 1600            | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 1400            | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 1200            | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 1000            | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 900             | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 800             | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 700             | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 600             | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 500             | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 400             | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 300             | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 200             | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 100             | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |
| ≥ 0               | 28.4                       | 41.3 | 47.3 | 53.0 | 57.7 | 64.4 | 72.4 | 77.7 | 77.7 | 80.2 | 80.9 | 80.9 | 81.2 | 81.2 | 81.5  | 82.4 |

TOTAL NUMBER OF OBSERVATIONS 825

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 25 YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2900-1100  
TIME PERIOD

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |       |      |      |      |      |       |      |       |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|------|------|------|-------|------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .4 | ≥ .3 | ≥ .2 | ≥ .16 | ≥ .1 | ≥ 0   |
| NO CEILING      | 23.3                       | 35.4 | 38.8 | 41.8 | 44.0 | 46.8  | 48.4 | 49.2  | 49.2  | 49.3 | 49.3 | 49.3 | 49.3 | 49.3  | 49.3 | 49.5  |
| ≥ 20000         | 27.1                       | 43.4 | 44.2 | 47.6 | 50.9 | 53.8  | 55.6 | 56.4  | 56.4  | 56.5 | 56.5 | 56.5 | 56.5 | 56.5  | 56.5 | 56.7  |
| ≥ 18000         | 27.1                       | 43.4 | 44.2 | 47.6 | 50.9 | 54.0  | 55.7 | 56.5  | 56.5  | 56.7 | 56.7 | 56.7 | 56.7 | 56.7  | 56.7 | 56.8  |
| ≥ 16000         | 27.1                       | 43.4 | 44.2 | 47.6 | 50.9 | 54.0  | 55.8 | 56.7  | 56.7  | 56.8 | 56.8 | 56.8 | 56.8 | 56.8  | 56.8 | 56.9  |
| ≥ 14000         | 27.7                       | 41.3 | 45.2 | 49.7 | 52.1 | 55.3  | 57.1 | 58.0  | 58.0  | 58.1 | 58.1 | 58.1 | 58.1 | 58.1  | 58.1 | 58.2  |
| ≥ 12000         | 28.3                       | 42.1 | 46.3 | 49.7 | 53.4 | 56.8  | 58.6 | 59.5  | 59.5  | 59.6 | 59.6 | 59.6 | 59.6 | 59.6  | 59.6 | 59.7  |
| ≥ 10000         | 29.4                       | 43.7 | 47.9 | 51.8 | 55.7 | 59.5  | 62.1 | 63.1  | 63.1  | 63.2 | 63.2 | 63.2 | 63.2 | 63.2  | 63.2 | 63.4  |
| ≥ 9000          | 29.6                       | 44.0 | 48.5 | 52.4 | 56.4 | 60.2  | 62.9 | 63.9  | 63.9  | 64.0 | 64.0 | 64.0 | 64.0 | 64.0  | 64.0 | 64.1  |
| ≥ 8000          | 30.2                       | 45.1 | 49.7 | 53.6 | 57.8 | 61.9  | 64.7 | 65.7  | 65.7  | 65.8 | 65.8 | 65.8 | 65.8 | 65.8  | 65.8 | 65.9  |
| ≥ 7000          | 30.4                       | 45.4 | 50.2 | 54.1 | 58.2 | 62.5  | 65.4 | 66.4  | 66.4  | 66.5 | 66.5 | 66.5 | 66.5 | 66.5  | 66.5 | 66.7  |
| ≥ 6000          | 30.4                       | 45.4 | 50.2 | 54.1 | 58.2 | 62.5  | 65.4 | 66.4  | 66.4  | 66.5 | 66.5 | 66.5 | 66.5 | 66.5  | 66.5 | 66.7  |
| ≥ 5000          | 30.6                       | 46.2 | 50.9 | 54.8 | 59.0 | 63.5  | 67.2 | 68.1  | 68.1  | 68.3 | 68.3 | 68.3 | 68.3 | 68.3  | 68.3 | 68.4  |
| ≥ 4500          | 31.0                       | 46.6 | 51.4 | 55.4 | 59.6 | 64.1  | 67.8 | 68.7  | 68.7  | 68.9 | 68.9 | 68.9 | 68.9 | 68.9  | 68.9 | 69.0  |
| ≥ 4000          | 31.6                       | 46.2 | 53.0 | 57.0 | 61.3 | 65.8  | 69.5 | 70.5  | 70.5  | 70.7 | 70.7 | 70.7 | 70.7 | 70.8  | 70.8 | 70.9  |
| ≥ 3500          | 33.0                       | 50.3 | 55.3 | 59.3 | 63.9 | 68.6  | 72.3 | 73.3  | 73.3  | 73.5 | 73.5 | 73.5 | 73.5 | 73.6  | 73.6 | 73.7  |
| ≥ 3000          | 34.3                       | 52.5 | 57.9 | 62.3 | 67.2 | 72.2  | 76.2 | 77.2  | 77.2  | 77.4 | 77.4 | 77.4 | 77.4 | 77.5  | 77.5 | 77.7  |
| ≥ 2500          | 35.4                       | 54.2 | 59.7 | 64.5 | 69.5 | 74.6  | 78.8 | 79.9  | 79.9  | 80.1 | 80.1 | 80.1 | 80.1 | 80.2  | 80.2 | 80.3  |
| ≥ 2000          | 36.3                       | 55.6 | 61.4 | 66.2 | 71.3 | 76.6  | 80.7 | 81.8  | 81.8  | 82.1 | 82.1 | 82.1 | 82.1 | 82.2  | 82.2 | 82.3  |
| ≥ 1800          | 36.9                       | 56.9 | 62.8 | 67.5 | 72.6 | 78.0  | 82.3 | 83.4  | 83.4  | 83.8 | 83.8 | 83.8 | 83.8 | 83.9  | 83.9 | 84.0  |
| ≥ 1500          | 37.4                       | 58.0 | 64.0 | 69.4 | 74.7 | 80.5  | 84.7 | 85.8  | 85.8  | 86.2 | 86.2 | 86.2 | 86.2 | 86.3  | 86.3 | 86.4  |
| ≥ 1200          | 38.5                       | 59.7 | 66.1 | 72.2 | 78.3 | 84.6  | 89.4 | 90.5  | 90.5  | 91.0 | 91.0 | 91.0 | 91.0 | 91.1  | 91.1 | 91.2  |
| ≥ 1000          | 38.6                       | 60.3 | 66.8 | 73.0 | 79.1 | 86.4  | 91.2 | 92.4  | 92.4  | 92.9 | 92.9 | 92.9 | 92.9 | 93.0  | 93.0 | 93.2  |
| ≥ 900           | 38.7                       | 60.6 | 67.0 | 73.7 | 80.0 | 87.5  | 92.8 | 94.0  | 94.0  | 94.5 | 94.5 | 94.5 | 94.5 | 94.6  | 94.6 | 94.7  |
| ≥ 800           | 38.8                       | 60.9 | 67.5 | 74.2 | 80.5 | 88.4  | 93.8 | 95.5  | 95.5  | 96.0 | 96.0 | 96.0 | 96.0 | 96.1  | 96.1 | 96.2  |
| ≥ 700           | 38.8                       | 61.1 | 67.6 | 74.4 | 80.8 | 89.1  | 94.6 | 96.5  | 96.5  | 96.9 | 96.9 | 96.9 | 96.9 | 97.1  | 97.1 | 97.2  |
| ≥ 600           | 38.3                       | 61.1 | 67.6 | 74.6 | 81.1 | 89.5  | 95.1 | 96.9  | 96.9  | 97.7 | 97.7 | 97.7 | 97.7 | 97.8  | 97.8 | 97.9  |
| ≥ 500           | 38.3                       | 61.1 | 67.6 | 74.7 | 81.2 | 89.9  | 95.7 | 97.8  | 97.8  | 98.7 | 98.7 | 98.7 | 98.7 | 98.8  | 98.8 | 98.9  |
| ≥ 400           | 38.8                       | 61.1 | 67.6 | 74.7 | 81.2 | 89.9  | 95.7 | 97.9  | 97.9  | 99.1 | 99.4 | 99.4 | 99.4 | 99.5  | 99.5 | 99.6  |
| ≥ 300           | 38.8                       | 61.1 | 67.6 | 74.7 | 81.2 | 89.9  | 95.7 | 97.9  | 97.9  | 99.3 | 99.6 | 99.6 | 99.6 | 99.8  | 99.8 | 99.9  |
| ≥ 200           | 38.8                       | 61.1 | 67.6 | 74.7 | 81.2 | 89.9  | 95.7 | 97.9  | 97.9  | 99.3 | 99.8 | 99.8 | 99.8 | 99.9  | 99.9 | 100.0 |
| ≥ 100           | 38.8                       | 61.1 | 67.6 | 74.7 | 81.2 | 89.9  | 95.7 | 97.9  | 97.9  | 99.3 | 99.8 | 99.8 | 99.8 | 99.9  | 99.9 | 100.0 |
| ≥ 0             | 38.8                       | 61.1 | 67.6 | 74.7 | 81.2 | 89.9  | 95.7 | 97.9  | 97.9  | 99.3 | 99.8 | 99.8 | 99.8 | 99.9  | 99.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 819

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (EST)

| CEILING<br>FEET | VISIBILITY / STATUTE MILES |      |      |      |      |       |      |       |       |      |      |      |       |       |       |       |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|------|------|-------|-------|-------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .5 | ≥ .4 | ≥ .3  | ≥ .25 | ≥ .2  | ≥ 0   |
| NO CEILING      | 22.9                       | 31.2 | 33.9 | 35.9 | 37.4 | 39.1  | 38.2 | 38.2  | 38.2  | 38.2 | 38.4 | 38.5 | 38.5  | 38.5  | 38.5  | 38.5  |
| ≥ 20000         | 28.6                       | 39.1 | 43.2 | 45.6 | 47.3 | 48.4  | 48.5 | 48.5  | 48.5  | 48.5 | 48.6 | 48.7 | 48.7  | 48.7  | 48.7  | 48.7  |
| IN 18000        | 28.6                       | 39.1 | 43.4 | 45.7 | 47.4 | 48.5  | 48.6 | 48.6  | 48.6  | 48.6 | 48.7 | 48.8 | 48.8  | 48.8  | 48.8  | 48.8  |
| IN 16000        | 28.6                       | 39.1 | 43.4 | 45.7 | 47.4 | 48.5  | 48.6 | 48.6  | 48.6  | 48.6 | 48.7 | 48.8 | 48.8  | 48.8  | 48.8  | 48.8  |
| IN 14000        | 28.9                       | 39.6 | 44.1 | 46.4 | 48.1 | 49.2  | 49.3 | 49.3  | 49.3  | 49.3 | 49.5 | 49.6 | 49.6  | 49.6  | 49.6  | 49.6  |
| IN 12000        | 29.6                       | 40.3 | 44.7 | 47.1 | 49.1 | 51.4  | 50.5 | 50.9  | 50.9  | 50.9 | 51.0 | 51.2 | 51.2  | 51.2  | 51.2  | 51.2  |
| IN 10000        | 37.1                       | 41.0 | 45.8 | 48.6 | 50.8 | 52.6  | 52.7 | 53.2  | 53.2  | 53.2 | 53.3 | 53.5 | 53.5  | 53.5  | 53.5  | 53.5  |
| IN 9000         | 30.3                       | 42.0 | 46.2 | 49.7 | 51.9 | 53.7  | 53.8 | 54.3  | 54.3  | 54.3 | 54.4 | 54.6 | 54.6  | 54.6  | 54.6  | 54.6  |
| IN 8000         | 31.5                       | 43.4 | 48.5 | 51.3 | 53.6 | 55.5  | 55.7 | 56.2  | 56.2  | 56.2 | 56.3 | 56.4 | 56.4  | 56.4  | 56.4  | 56.4  |
| IN 7000         | 31.9                       | 44.3 | 49.7 | 52.5 | 54.9 | 56.9  | 57.0 | 57.5  | 57.5  | 57.5 | 57.6 | 57.7 | 57.7  | 57.7  | 57.7  | 57.7  |
| IN 6000         | 31.9                       | 44.3 | 49.8 | 52.6 | 55.1 | 57.0  | 57.1 | 57.6  | 57.6  | 57.6 | 57.7 | 57.9 | 57.9  | 57.9  | 57.9  | 57.9  |
| IN 5000         | 33.7                       | 46.9 | 52.6 | 55.4 | 57.9 | 59.9  | 60.0 | 60.5  | 60.5  | 60.5 | 60.7 | 60.8 | 60.8  | 60.8  | 60.8  | 60.8  |
| IN 4500         | 33.6                       | 48.2 | 54.1 | 56.9 | 59.3 | 61.5  | 61.6 | 62.1  | 62.1  | 62.1 | 62.2 | 62.4 | 62.4  | 62.4  | 62.4  | 62.4  |
| IN 4000         | 38.5                       | 54.7 | 61.1 | 64.2 | 66.9 | 70.0  | 70.4 | 70.9  | 70.9  | 70.9 | 71.0 | 71.1 | 71.1  | 71.1  | 71.1  | 71.1  |
| IN 3500         | 41.5                       | 60.5 | 67.2 | 70.9 | 74.3 | 77.7  | 78.1 | 78.6  | 78.6  | 78.6 | 78.7 | 78.8 | 78.8  | 78.8  | 78.8  | 78.8  |
| IN 3000         | 42.0                       | 63.1 | 70.5 | 74.5 | 78.2 | 81.7  | 82.1 | 82.8  | 82.8  | 82.8 | 82.9 | 83.1 | 83.1  | 83.1  | 83.1  | 83.1  |
| IN 2500         | 43.8                       | 64.8 | 72.4 | 77.1 | 81.5 | 85.1  | 85.5 | 86.2  | 86.2  | 86.2 | 86.4 | 86.5 | 86.5  | 86.5  | 86.5  | 86.5  |
| IN 2000         | 44.8                       | 67.1 | 75.2 | 80.4 | 85.3 | 89.5  | 90.0 | 90.9  | 90.9  | 90.9 | 91.0 | 91.1 | 91.1  | 91.1  | 91.1  | 91.1  |
| IN 1800         | 45.2                       | 67.6 | 75.9 | 81.2 | 86.2 | 90.6  | 91.1 | 92.0  | 92.0  | 92.0 | 92.1 | 92.2 | 92.2  | 92.2  | 92.2  | 92.2  |
| IN 1500         | 45.6                       | 68.9 | 77.5 | 83.2 | 88.7 | 93.7  | 94.2 | 95.1  | 95.1  | 95.1 | 95.2 | 95.4 | 95.4  | 95.4  | 95.4  | 95.4  |
| IN 1200         | 45.7                       | 69.5 | 78.2 | 84.4 | 89.9 | 94.9  | 95.4 | 96.6  | 96.6  | 96.6 | 96.7 | 96.8 | 96.8  | 96.8  | 96.8  | 96.8  |
| IN 1000         | 45.8                       | 69.8 | 78.4 | 84.7 | 90.1 | 95.1  | 95.6 | 97.1  | 97.1  | 97.1 | 97.3 | 97.4 | 97.4  | 97.4  | 97.4  | 97.4  |
| IN 900          | 45.8                       | 70.2 | 78.8 | 85.4 | 90.9 | 95.9  | 96.5 | 98.2  | 98.2  | 98.2 | 98.4 | 98.5 | 98.5  | 98.5  | 98.5  | 98.5  |
| IN 800          | 45.8                       | 70.3 | 78.9 | 85.5 | 91.0 | 96.1  | 96.7 | 98.4  | 98.4  | 98.4 | 98.7 | 98.8 | 98.8  | 98.8  | 98.8  | 98.8  |
| IN 700          | 45.8                       | 70.3 | 78.9 | 85.5 | 91.1 | 96.2  | 96.8 | 98.5  | 98.5  | 98.5 | 98.8 | 98.9 | 98.9  | 98.9  | 98.9  | 98.9  |
| IN 600          | 45.8                       | 70.3 | 78.9 | 85.5 | 91.2 | 96.6  | 97.2 | 98.9  | 98.9  | 98.9 | 99.1 | 99.3 | 99.3  | 99.3  | 99.3  | 99.3  |
| IN 500          | 45.8                       | 70.3 | 78.9 | 85.7 | 91.4 | 96.7  | 97.3 | 99.4  | 99.4  | 99.4 | 99.6 | 99.8 | 99.8  | 99.8  | 99.8  | 99.8  |
| IN 400          | 45.8                       | 70.3 | 78.9 | 85.7 | 91.4 | 96.7  | 97.3 | 99.5  | 99.5  | 99.5 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 |
| IN 300          | 45.8                       | 70.3 | 78.9 | 85.7 | 91.4 | 96.7  | 97.3 | 99.5  | 99.5  | 99.5 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 |
| IN 200          | 45.8                       | 70.3 | 78.9 | 85.7 | 91.4 | 96.7  | 97.3 | 99.5  | 99.5  | 99.5 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 |
| IN 100          | 45.8                       | 70.3 | 78.9 | 85.7 | 91.4 | 96.7  | 97.3 | 99.5  | 99.5  | 99.5 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 |
| IN 0            | 45.8                       | 70.3 | 78.9 | 85.7 | 91.4 | 96.7  | 97.3 | 99.5  | 99.5  | 99.5 | 99.6 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 821

7  
FEDERAL CLIMATOLOGY BRANCH  
USAF ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

287  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |       |      |       |       |       |       |        |      |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|-------|-------|-------|-------|--------|------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.0 | ≥ .5 | ≥ .25 | ≥ .15 | ≥ .10 | ≥ .05 | ≥ .025 | ≥ 0  |
| NO CEILING      | 25.9                       | 33.4 | 37.4 | 40.1 | 42.3 | 43.6  | 43.7 | 43.7  | 43.7  | 43.7 | 43.7  | 43.7  | 43.7  | 43.7  | 43.7   | 43.7 |
| ≥ 20000         | 33.4                       | 42.6 | 48.3 | 51.0 | 53.4 | 54.6  | 54.7 | 54.7  | 54.7  | 54.7 | 54.7  | 54.7  | 54.7  | 54.7  | 54.7   | 54.7 |
| ≥ 18000         | 33.4                       | 43.1 | 48.5 | 51.3 | 53.6 | 54.8  | 55.0 | 55.0  | 55.0  | 55.0 | 55.0  | 55.0  | 55.0  | 55.0  | 55.0   | 55.0 |
| ≥ 16000         | 33.5                       | 43.2 | 48.6 | 51.4 | 53.7 | 55.0  | 55.1 | 55.1  | 55.1  | 55.1 | 55.1  | 55.1  | 55.1  | 55.1  | 55.1   | 55.1 |
| ≥ 14000         | 33.7                       | 43.9 | 49.3 | 52.1 | 54.5 | 56.0  | 56.1 | 56.1  | 56.1  | 56.1 | 56.1  | 56.1  | 56.1  | 56.1  | 56.1   | 56.1 |
| ≥ 12000         | 35.6                       | 46.0 | 51.7 | 54.5 | 56.9 | 58.7  | 58.8 | 58.9  | 58.9  | 58.9 | 58.9  | 58.9  | 58.9  | 58.9  | 58.9   | 58.9 |
| ≥ 10000         | 36.9                       | 48.3 | 54.2 | 57.3 | 60.5 | 62.2  | 62.7 | 62.8  | 62.8  | 62.8 | 62.8  | 62.8  | 62.8  | 62.8  | 62.8   | 62.8 |
| ≥ 9000          | 37.2                       | 48.7 | 54.6 | 57.7 | 61.0 | 62.7  | 63.3 | 63.4  | 63.4  | 63.4 | 63.4  | 63.4  | 63.4  | 63.4  | 63.4   | 63.4 |
| ≥ 8000          | 38.4                       | 50.3 | 56.3 | 59.5 | 62.9 | 64.8  | 65.4 | 65.5  | 65.5  | 65.5 | 65.5  | 65.5  | 65.5  | 65.5  | 65.5   | 65.5 |
| ≥ 7000          | 38.5                       | 50.9 | 56.9 | 60.2 | 63.7 | 65.5  | 66.1 | 66.3  | 66.3  | 66.3 | 66.3  | 66.3  | 66.3  | 66.3  | 66.3   | 66.3 |
| ≥ 6000          | 38.8                       | 51.4 | 57.4 | 60.7 | 64.2 | 66.0  | 66.6 | 66.7  | 66.7  | 66.7 | 66.7  | 66.7  | 66.7  | 66.7  | 66.7   | 66.7 |
| ≥ 5000          | 39.9                       | 52.9 | 59.7 | 62.6 | 66.0 | 68.2  | 68.8 | 69.0  | 69.0  | 69.0 | 69.0  | 69.0  | 69.0  | 69.0  | 69.0   | 69.0 |
| ≥ 4500          | 41.2                       | 55.2 | 61.3 | 64.9 | 68.3 | 70.9  | 71.5 | 71.7  | 71.7  | 71.7 | 71.7  | 71.7  | 71.7  | 71.7  | 71.7   | 71.7 |
| ≥ 4000          | 44.4                       | 60.7 | 67.7 | 71.9 | 76.0 | 79.3  | 80.1 | 80.4  | 80.4  | 80.4 | 80.4  | 80.4  | 80.4  | 80.4  | 80.4   | 80.4 |
| ≥ 3500          | 45.5                       | 63.1 | 71.2 | 75.3 | 79.9 | 83.7  | 84.7 | 85.3  | 85.3  | 85.3 | 85.3  | 85.3  | 85.3  | 85.3  | 85.3   | 85.3 |
| ≥ 3000          | 46.3                       | 64.9 | 73.4 | 77.9 | 82.8 | 86.6  | 87.6 | 88.6  | 88.6  | 88.6 | 88.6  | 88.6  | 88.6  | 88.6  | 88.6   | 88.6 |
| ≥ 2500          | 47.2                       | 66.3 | 75.2 | 80.2 | 85.6 | 89.9  | 90.9 | 92.0  | 92.0  | 92.1 | 92.1  | 92.1  | 92.1  | 92.1  | 92.1   | 92.1 |
| ≥ 2000          | 48.0                       | 67.4 | 76.9 | 82.3 | 88.2 | 93.1  | 94.1 | 95.2  | 95.2  | 95.3 | 95.3  | 95.3  | 95.3  | 95.3  | 95.3   | 95.3 |
| ≥ 1800          | 48.0                       | 67.4 | 76.9 | 82.6 | 88.5 | 93.5  | 94.5 | 95.7  | 95.7  | 95.8 | 95.8  | 95.8  | 95.8  | 95.8  | 95.8   | 95.8 |
| ≥ 1500          | 48.7                       | 67.9 | 77.4 | 83.2 | 89.2 | 94.2  | 95.2 | 96.6  | 96.6  | 96.7 | 96.7  | 96.7  | 96.7  | 96.7  | 96.7   | 96.7 |
| ≥ 1200          | 48.2                       | 68.6 | 78.2 | 84.3 | 90.4 | 95.5  | 96.4 | 97.9  | 97.9  | 98.2 | 98.2  | 98.2  | 98.2  | 98.2  | 98.2   | 98.2 |
| ≥ 1000          | 48.2                       | 68.7 | 78.3 | 84.4 | 90.6 | 95.6  | 96.6 | 98.0  | 98.0  | 98.3 | 98.3  | 98.3  | 98.3  | 98.3  | 98.3   | 98.3 |
| ≥ 900           | 49.2                       | 69.7 | 78.3 | 84.4 | 90.6 | 95.6  | 96.6 | 98.0  | 98.0  | 98.3 | 98.3  | 98.3  | 98.3  | 98.3  | 98.3   | 98.3 |
| ≥ 800           | 48.2                       | 69.0 | 78.5 | 84.8 | 90.9 | 96.0  | 97.1 | 98.5  | 98.5  | 98.8 | 98.8  | 98.8  | 98.8  | 98.8  | 98.8   | 98.8 |
| ≥ 700           | 48.2                       | 69.0 | 78.5 | 84.9 | 91.0 | 96.2  | 97.3 | 98.8  | 98.8  | 99.0 | 99.0  | 99.0  | 99.0  | 99.0  | 99.0   | 99.0 |
| ≥ 600           | 48.2                       | 69.0 | 78.5 | 84.9 | 91.0 | 96.2  | 97.4 | 99.1  | 99.1  | 99.4 | 99.4  | 99.4  | 99.4  | 99.4  | 99.4   | 99.4 |
| ≥ 500           | 48.2                       | 69.0 | 78.5 | 84.9 | 91.0 | 96.2  | 97.4 | 99.1  | 99.1  | 99.4 | 99.4  | 99.4  | 99.4  | 99.4  | 99.4   | 99.4 |
| ≥ 400           | 48.2                       | 69.0 | 78.7 | 85.2 | 91.3 | 96.4  | 97.7 | 99.5  | 99.5  | 99.9 | 99.9  | 99.9  | 99.9  | 99.9  | 99.9   | 99.9 |
| ≥ 300           | 48.2                       | 69.0 | 78.7 | 85.2 | 91.3 | 96.4  | 97.7 | 99.5  | 99.5  | 99.9 | 99.9  | 99.9  | 99.9  | 99.9  | 99.9   | 99.9 |
| ≥ 200           | 48.2                       | 69.0 | 78.7 | 85.2 | 91.3 | 96.4  | 97.7 | 99.5  | 99.5  | 99.9 | 99.9  | 99.9  | 99.9  | 99.9  | 99.9   | 99.9 |
| ≥ 100           | 48.2                       | 69.0 | 78.7 | 85.2 | 91.3 | 96.4  | 97.7 | 99.5  | 99.5  | 99.9 | 99.9  | 99.9  | 99.9  | 99.9  | 99.9   | 99.9 |
| ≥ 0             | 48.2                       | 69.0 | 78.7 | 85.2 | 91.3 | 96.4  | 97.7 | 99.5  | 99.5  | 99.9 | 99.9  | 99.9  | 99.9  | 99.9  | 99.9   | 99.9 |

TOTAL NUMBER OF OBSERVATIONS 815

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

25 YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81

YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2100  
HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   |
| NO CEILING      | 31.2                       | 48.6 | 45.7 | 47.9 | 50.6 | 52.3 | 53.4 | 53.6 | 53.6 | 53.6 | 53.6 | 53.6 | 53.6 | 53.6 | 53.6 | 53.6 |
| ≥20000          | 39.3                       | 50.6 | 56.4 | 60.0 | 63.4 | 65.6 | 66.8 | 67.1 | 67.1 | 67.1 | 67.1 | 67.1 | 67.1 | 67.1 | 67.1 | 67.1 |
| ≥18000          | 39.4                       | 50.7 | 56.5 | 60.1 | 63.6 | 65.8 | 67.0 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 |
| ≥16000          | 39.4                       | 50.7 | 56.5 | 60.1 | 63.6 | 65.8 | 67.0 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 | 67.4 |
| ≥14000          | 39.9                       | 51.4 | 57.2 | 60.9 | 64.4 | 66.5 | 67.8 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 |
| ≥12000          | 41.5                       | 53.4 | 59.2 | 62.9 | 66.5 | 69.0 | 70.2 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 | 70.5 |
| ≥10000          | 44.1                       | 56.4 | 62.0 | 66.7 | 70.5 | 73.4 | 74.6 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 |
| ≥9000           | 44.1                       | 56.4 | 62.0 | 66.7 | 70.5 | 73.4 | 74.6 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 | 75.0 |
| ≥8000           | 45.4                       | 58.2 | 65.0 | 69.3 | 73.4 | 76.6 | 77.8 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 |
| ≥7000           | 46.0                       | 58.9 | 65.8 | 70.2 | 74.3 | 77.4 | 78.6 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1 |
| ≥6000           | 45.3                       | 59.4 | 66.3 | 70.7 | 74.8 | 77.9 | 79.1 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 | 79.6 |
| ≥5000           | 47.6                       | 61.4 | 68.5 | 73.2 | 77.3 | 80.6 | 81.8 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 |
| ≥4500           | 48.4                       | 62.7 | 69.9 | 74.6 | 78.7 | 82.1 | 83.5 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 |
| ≥4000           | 49.3                       | 65.2 | 72.9 | 77.8 | 82.5 | 86.5 | 88.2 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 | 88.6 |
| ≥3500           | 49.5                       | 65.9 | 74.1 | 78.9 | 83.7 | 88.3 | 90.0 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 | 90.5 |
| ≥3000           | 49.5                       | 66.4 | 74.6 | 79.6 | 84.8 | 89.5 | 91.3 | 92.1 | 92.1 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 | 92.3 |
| ≥2500           | 49.9                       | 67.4 | 76.1 | 81.4 | 86.6 | 91.3 | 93.2 | 94.1 | 94.1 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 |
| ≥2000           | 50.4                       | 68.0 | 76.7 | 82.2 | 87.7 | 92.6 | 94.7 | 95.7 | 95.7 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 |
| ≥1800           | 50.5                       | 68.2 | 76.9 | 82.5 | 87.9 | 93.0 | 95.2 | 96.1 | 96.1 | 96.4 | 96.4 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 |
| ≥1500           | 50.6                       | 68.4 | 77.3 | 82.9 | 88.3 | 93.4 | 95.7 | 96.7 | 96.7 | 97.0 | 97.0 | 97.1 | 97.1 | 97.1 | 97.1 | 97.1 |
| ≥1200           | 50.8                       | 69.0 | 77.9 | 83.5 | 89.0 | 94.1 | 96.4 | 97.5 | 97.5 | 97.7 | 97.7 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 |
| ≥1000           | 50.9                       | 69.0 | 77.9 | 83.5 | 89.0 | 94.1 | 96.4 | 97.5 | 97.5 | 97.7 | 97.7 | 97.8 | 97.8 | 97.8 | 97.8 | 97.8 |
| ≥900            | 50.9                       | 69.2 | 78.3 | 83.8 | 89.4 | 94.6 | 96.9 | 97.9 | 97.9 | 98.2 | 98.2 | 98.3 | 98.3 | 98.3 | 98.3 | 98.3 |
| ≥800            | 50.3                       | 69.2 | 78.3 | 83.9 | 89.5 | 94.7 | 97.0 | 98.2 | 98.2 | 98.4 | 98.4 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 |
| ≥700            | 50.3                       | 69.3 | 78.4 | 84.1 | 89.6 | 94.8 | 97.1 | 98.3 | 98.3 | 98.6 | 98.6 | 98.7 | 98.7 | 98.7 | 98.7 | 98.7 |
| ≥600            | 50.5                       | 69.3 | 78.4 | 84.2 | 89.7 | 94.9 | 97.3 | 98.7 | 98.7 | 99.0 | 99.0 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 |
| ≥500            | 50.9                       | 69.3 | 78.4 | 84.2 | 89.7 | 94.9 | 97.3 | 98.7 | 98.7 | 99.2 | 99.2 | 99.3 | 99.3 | 99.3 | 99.3 | 99.3 |
| ≥400            | 50.3                       | 69.3 | 78.4 | 84.3 | 89.9 | 95.0 | 97.7 | 99.0 | 99.0 | 99.6 | 99.6 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 |
| ≥300            | 50.5                       | 69.3 | 78.4 | 84.3 | 89.9 | 95.0 | 97.7 | 99.0 | 99.0 | 99.6 | 99.6 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 |
| ≥200            | 50.5                       | 69.3 | 78.4 | 84.3 | 89.9 | 95.0 | 97.7 | 99.0 | 99.0 | 99.6 | 99.6 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 |
| ≥100            | 50.3                       | 69.3 | 78.4 | 84.3 | 89.9 | 95.0 | 97.7 | 99.0 | 99.0 | 99.6 | 99.6 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 |
| 0               | 50.5                       | 69.3 | 78.4 | 84.3 | 89.9 | 95.0 | 97.7 | 99.0 | 99.0 | 99.6 | 99.6 | 99.8 | 99.8 | 99.8 | 99.8 | 99.8 |

TOTAL NUMBER OF OBSERVATIONS 828

GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

JUL  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.7 | ≥2   | ≥1.7 | ≥1.4 | ≥1   | ≥.9   | ≥.8   | ≥.7   | ≥.6   | ≥.5   | ≥.4   |
| NO CEILING      | 35.1                       | 49.1 | 53.1 | 56.9 | 58.7 | 60.9 | 62.0 | 62.1 | 62.1 | 62.3 | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  | 62.3  |
| ≥ 20000         | 37.3                       | 52.2 | 57.1 | 61.5 | 63.9 | 66.5 | 67.8 | 68.1 | 68.1 | 68.3 | 68.5  | 68.5  | 68.5  | 68.5  | 68.5  | 68.5  |
| ≥ 18000         | 27.3                       | 52.2 | 57.1 | 61.5 | 64.0 | 66.6 | 67.9 | 68.2 | 68.2 | 68.5 | 68.6  | 68.6  | 68.6  | 68.6  | 68.6  | 68.6  |
| ≥ 16000         | 37.3                       | 52.2 | 57.1 | 61.5 | 64.0 | 66.6 | 67.9 | 68.2 | 68.2 | 68.5 | 68.6  | 68.6  | 68.6  | 68.6  | 68.6  | 68.6  |
| ≥ 14000         | 37.5                       | 52.4 | 57.1 | 61.6 | 64.1 | 66.8 | 68.1 | 68.3 | 68.3 | 68.6 | 68.7  | 68.7  | 68.7  | 68.7  | 68.7  | 68.7  |
| ≥ 12000         | 39.1                       | 53.8 | 58.7 | 63.6 | 66.1 | 68.7 | 70.3 | 70.6 | 70.6 | 70.8 | 71.0  | 71.0  | 71.0  | 71.0  | 71.0  | 71.0  |
| ≥ 10000         | 39.2                       | 55.5 | 60.9 | 66.1 | 68.6 | 71.6 | 73.2 | 73.5 | 73.5 | 73.7 | 73.9  | 73.9  | 73.9  | 73.9  | 73.9  | 73.9  |
| ≥ 9000          | 39.7                       | 56.3 | 62.0 | 67.2 | 69.7 | 72.7 | 74.3 | 74.5 | 74.5 | 74.8 | 74.9  | 74.9  | 74.9  | 74.9  | 74.9  | 74.9  |
| ≥ 8000          | 40.3                       | 57.3 | 63.2 | 68.3 | 71.0 | 74.3 | 75.9 | 76.1 | 76.1 | 76.4 | 76.5  | 76.5  | 76.5  | 76.5  | 76.5  | 76.5  |
| ≥ 7000          | 41.6                       | 58.7 | 64.8 | 69.9 | 72.6 | 76.1 | 77.8 | 78.1 | 78.1 | 78.4 | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  | 78.5  |
| ≥ 6000          | 42.2                       | 59.5 | 65.6 | 70.7 | 73.4 | 76.9 | 78.6 | 78.9 | 78.9 | 79.2 | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  | 79.3  |
| ≥ 5000          | 43.5                       | 62.0 | 68.9 | 74.3 | 77.2 | 80.9 | 82.6 | 83.0 | 83.0 | 83.2 | 83.4  | 83.4  | 83.4  | 83.4  | 83.4  | 83.4  |
| ≥ 4500          | 43.7                       | 62.9 | 70.4 | 75.9 | 78.8 | 82.5 | 84.3 | 84.7 | 84.7 | 85.0 | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  |
| ≥ 4000          | 44.3                       | 64.2 | 72.2 | 78.1 | 81.0 | 85.0 | 86.9 | 87.3 | 87.3 | 87.6 | 87.7  | 87.7  | 87.7  | 87.7  | 87.7  | 87.7  |
| ≥ 3500          | 45.0                       | 65.3 | 73.2 | 79.4 | 82.3 | 86.5 | 88.8 | 89.4 | 89.4 | 89.7 | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  | 89.8  |
| ≥ 3000          | 45.1                       | 66.0 | 74.3 | 80.5 | 83.8 | 88.3 | 90.5 | 91.7 | 91.7 | 92.0 | 92.1  | 92.1  | 92.1  | 92.1  | 92.1  | 92.1  |
| ≥ 2500          | 45.1                       | 66.2 | 74.9 | 81.3 | 84.6 | 89.1 | 91.3 | 92.5 | 92.5 | 92.7 | 92.9  | 92.9  | 92.9  | 92.9  | 92.9  | 92.9  |
| ≥ 2000          | 45.4                       | 66.5 | 75.3 | 82.1 | 85.4 | 89.8 | 92.5 | 93.8 | 93.8 | 94.1 | 94.2  | 94.2  | 94.2  | 94.2  | 94.2  | 94.2  |
| ≥ 1800          | 45.4                       | 66.5 | 75.3 | 82.1 | 85.4 | 89.8 | 92.6 | 93.9 | 93.9 | 94.2 | 94.3  | 94.3  | 94.3  | 94.3  | 94.3  | 94.3  |
| ≥ 1500          | 45.9                       | 67.0 | 75.9 | 82.6 | 86.0 | 90.5 | 93.4 | 94.7 | 94.7 | 95.0 | 95.1  | 95.1  | 95.1  | 95.1  | 95.1  | 95.1  |
| ≥ 1200          | 46.0                       | 67.5 | 76.5 | 83.4 | 86.8 | 91.3 | 94.3 | 95.6 | 95.6 | 96.0 | 96.2  | 96.2  | 96.2  | 96.2  | 96.2  | 96.2  |
| ≥ 1000          | 46.0                       | 67.5 | 76.6 | 83.6 | 87.1 | 91.6 | 94.6 | 95.9 | 95.9 | 96.6 | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  | 96.7  |
| ≥ 900           | 46.0                       | 67.7 | 77.2 | 84.2 | 87.6 | 92.1 | 95.1 | 96.4 | 96.4 | 97.1 | 97.2  | 97.2  | 97.2  | 97.2  | 97.2  | 97.2  |
| ≥ 800           | 46.0                       | 67.9 | 77.6 | 84.6 | 88.0 | 92.5 | 95.6 | 97.0 | 97.0 | 97.6 | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  |
| ≥ 700           | 46.0                       | 67.9 | 77.8 | 84.8 | 88.3 | 92.7 | 95.9 | 97.2 | 97.2 | 97.9 | 98.0  | 98.0  | 98.0  | 98.0  | 98.0  | 98.0  |
| ≥ 600           | 46.0                       | 67.9 | 78.0 | 85.0 | 88.4 | 92.9 | 96.0 | 97.5 | 97.5 | 98.2 | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  | 98.3  |
| ≥ 500           | 46.0                       | 67.9 | 78.0 | 85.1 | 88.5 | 93.0 | 96.4 | 97.9 | 97.9 | 98.5 | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  | 98.7  |
| ≥ 400           | 46.0                       | 67.9 | 78.0 | 85.1 | 88.5 | 93.0 | 97.0 | 98.4 | 98.4 | 99.3 | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  | 99.5  |
| ≥ 300           | 46.0                       | 67.9 | 78.0 | 85.1 | 88.5 | 93.0 | 97.0 | 98.4 | 98.4 | 99.6 | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  | 99.7  |
| ≥ 200           | 46.0                       | 67.9 | 78.0 | 85.1 | 88.5 | 93.1 | 97.1 | 98.5 | 98.5 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 100           | 46.0                       | 67.9 | 78.0 | 85.1 | 88.5 | 93.1 | 97.1 | 98.5 | 98.5 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 0             | 46.0                       | 67.9 | 78.0 | 85.1 | 88.5 | 93.1 | 97.1 | 98.5 | 98.5 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 758

USAF ETAC FORM JUL 64 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

CLIMATE CLIMATOLOGY BRANCH  
ETAC  
FATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥.4  |
| NO CEILING      | 26.4                     | 37.4 | 41.3 | 45.0 | 47.5 | 49.2 | 50.8 | 51.4 | 51.4 | 51.9 | 52.1 | 52.1 | 52.3 | 52.3 | 52.4 | 52.6 |
| ≥ 20000         | 30.4                     | 42.8 | 47.5 | 51.6 | 54.6 | 56.7 | 58.6 | 59.5 | 59.5 | 60.1 | 60.3 | 60.3 | 60.5 | 60.5 | 60.6 | 60.8 |
| ≥ 18000         | 30.4                     | 42.8 | 47.5 | 51.7 | 54.7 | 56.9 | 58.8 | 59.6 | 59.6 | 60.3 | 60.5 | 60.5 | 60.7 | 60.7 | 60.7 | 61.0 |
| ≥ 16000         | 30.4                     | 42.9 | 47.6 | 51.8 | 54.7 | 56.9 | 58.8 | 59.7 | 59.7 | 60.3 | 60.5 | 60.5 | 60.7 | 60.7 | 60.8 | 61.0 |
| ≥ 14000         | 30.7                     | 43.4 | 48.1 | 52.3 | 55.3 | 57.6 | 59.5 | 60.3 | 60.4 | 61.0 | 61.2 | 61.2 | 61.4 | 61.4 | 61.5 | 61.7 |
| ≥ 12000         | 31.7                     | 44.6 | 47.5 | 53.9 | 57.1 | 59.5 | 61.5 | 62.4 | 62.4 | 63.1 | 63.3 | 63.3 | 63.5 | 63.5 | 63.6 | 63.8 |
| ≥ 10000         | 32.0                     | 46.5 | 51.8 | 56.5 | 60.0 | 62.7 | 64.9 | 65.9 | 65.9 | 66.6 | 66.8 | 66.8 | 67.0 | 67.0 | 67.1 | 67.3 |
| ≥ 9000          | 33.0                     | 46.3 | 52.3 | 57.3 | 60.5 | 63.3 | 65.5 | 66.5 | 66.5 | 67.2 | 67.4 | 67.4 | 67.6 | 67.6 | 67.7 | 67.9 |
| ≥ 8000          | 33.4                     | 48.2 | 53.9 | 58.8 | 62.4 | 65.3 | 67.6 | 68.7 | 68.7 | 69.4 | 69.6 | 69.6 | 69.8 | 69.8 | 69.9 | 70.1 |
| ≥ 7000          | 34.2                     | 48.8 | 54.9 | 59.6 | 63.2 | 66.2 | 68.6 | 69.7 | 69.7 | 70.4 | 70.6 | 70.6 | 70.9 | 70.9 | 70.9 | 71.2 |
| ≥ 6000          | 34.4                     | 49.1 | 55.1 | 60.0 | 63.6 | 66.6 | 69.0 | 70.1 | 70.1 | 70.8 | 71.0 | 71.0 | 71.2 | 71.2 | 71.3 | 71.6 |
| ≥ 5000          | 35.4                     | 50.8 | 57.0 | 62.1 | 65.8 | 69.0 | 71.6 | 72.8 | 72.8 | 73.5 | 73.7 | 73.7 | 73.9 | 73.9 | 74.0 | 74.2 |
| ≥ 4500          | 36.1                     | 52.0 | 58.5 | 63.6 | 67.3 | 70.6 | 73.3 | 74.5 | 74.5 | 75.2 | 75.4 | 75.4 | 75.6 | 75.6 | 75.7 | 76.0 |
| ≥ 4000          | 37.6                     | 54.7 | 61.5 | 66.8 | 70.8 | 74.5 | 77.4 | 78.7 | 78.7 | 79.4 | 79.6 | 79.7 | 79.9 | 79.9 | 80.0 | 80.2 |
| ≥ 3500          | 38.7                     | 56.5 | 63.7 | 69.2 | 73.4 | 77.4 | 80.4 | 81.7 | 81.7 | 82.5 | 82.7 | 82.7 | 83.0 | 83.0 | 83.0 | 83.3 |
| ≥ 3000          | 39.4                     | 57.8 | 65.4 | 71.1 | 75.6 | 79.7 | 82.9 | 84.5 | 84.5 | 85.2 | 85.5 | 85.5 | 85.7 | 85.7 | 85.8 | 86.0 |
| ≥ 2500          | 39.8                     | 58.8 | 66.6 | 72.7 | 77.3 | 81.6 | 84.8 | 86.4 | 86.4 | 87.2 | 87.4 | 87.4 | 87.7 | 87.7 | 87.7 | 88.0 |
| ≥ 2000          | 40.3                     | 59.6 | 67.7 | 73.9 | 78.8 | 83.3 | 86.6 | 88.3 | 88.3 | 89.1 | 89.4 | 89.4 | 89.6 | 89.6 | 89.7 | 89.9 |
| ≥ 1800          | 40.5                     | 59.9 | 68.0 | 74.4 | 79.2 | 83.8 | 87.2 | 88.9 | 88.9 | 89.7 | 90.0 | 90.0 | 90.2 | 90.2 | 90.3 | 90.6 |
| ≥ 1500          | 40.6                     | 60.4 | 68.6 | 75.2 | 80.2 | 84.9 | 88.3 | 90.0 | 90.1 | 90.9 | 91.1 | 91.2 | 91.4 | 91.4 | 91.5 | 91.7 |
| ≥ 1200          | 40.9                     | 61.1 | 69.4 | 76.2 | 81.4 | 86.2 | 89.8 | 91.6 | 91.6 | 92.5 | 92.7 | 92.8 | 93.0 | 93.0 | 93.1 | 93.3 |
| ≥ 1000          | 41.0                     | 61.3 | 69.7 | 76.6 | 81.8 | 86.8 | 90.4 | 92.3 | 92.3 | 93.3 | 93.5 | 93.6 | 93.8 | 93.8 | 93.9 | 94.2 |
| ≥ 900           | 41.1                     | 61.5 | 70.1 | 77.2 | 82.4 | 87.5 | 91.3 | 93.1 | 93.2 | 94.1 | 94.4 | 94.5 | 94.7 | 94.7 | 94.8 | 95.0 |
| ≥ 800           | 41.1                     | 61.7 | 70.3 | 77.5 | 82.8 | 88.0 | 91.9 | 93.8 | 93.8 | 94.8 | 95.1 | 95.2 | 95.4 | 95.4 | 95.5 | 95.7 |
| ≥ 700           | 41.1                     | 61.8 | 70.5 | 77.8 | 83.1 | 88.4 | 92.4 | 94.4 | 94.5 | 95.5 | 95.8 | 95.8 | 96.0 | 96.0 | 96.1 | 96.4 |
| ≥ 600           | 41.1                     | 61.9 | 70.7 | 78.1 | 83.4 | 88.8 | 92.8 | 95.0 | 95.0 | 96.1 | 96.5 | 96.5 | 96.7 | 96.7 | 96.8 | 97.1 |
| ≥ 500           | 41.1                     | 62.0 | 70.7 | 78.2 | 83.5 | 89.1 | 93.3 | 95.6 | 95.6 | 96.9 | 97.2 | 97.3 | 97.5 | 97.5 | 97.6 | 97.8 |
| ≥ 400           | 41.1                     | 62.0 | 70.7 | 78.3 | 83.7 | 89.2 | 93.7 | 96.1 | 96.1 | 97.6 | 98.0 | 98.1 | 98.3 | 98.3 | 98.4 | 98.7 |
| ≥ 300           | 41.1                     | 62.0 | 70.7 | 78.3 | 83.7 | 89.2 | 93.8 | 96.2 | 96.3 | 98.0 | 98.5 | 98.6 | 98.8 | 98.8 | 98.9 | 99.2 |
| ≥ 200           | 41.1                     | 62.0 | 70.7 | 78.3 | 83.7 | 89.2 | 93.8 | 96.3 | 96.4 | 98.2 | 98.8 | 98.8 | 99.1 | 99.1 | 99.3 | 99.5 |
| ≥ 100           | 41.1                     | 62.0 | 70.7 | 78.3 | 83.7 | 89.2 | 93.8 | 96.3 | 96.4 | 98.3 | 98.8 | 98.9 | 99.2 | 99.2 | 99.4 | 99.7 |
| ≥ 0             | 41.1                     | 62.0 | 70.7 | 78.3 | 83.7 | 89.2 | 93.8 | 96.3 | 96.4 | 98.3 | 98.8 | 98.9 | 99.2 | 99.2 | 99.4 | 99.7 |

TOTAL NUMBER OF OBSERVATIONS 6325



1. JAL CLIMATOLOGY BRANCH  
USAF ETAC  
WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1980-1981

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |        |      |       |      |       |       |      |       |
|-----------------|--------------------------|------|------|------|------|-------|------|-------|--------|------|-------|------|-------|-------|------|-------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.25 | ≥ 1  | ≥ .75 | ≥ .5 | ≥ .25 | ≥ .16 | ≥ .1 | ≥ 0   |
| NO CEILING      | 21.7                     | 74.3 | 37.4 | 44.2 | 47.8 | 48.9  | 51.9 | 52.9  | 52.9   | 53.5 | 53.8  | 53.8 | 54.4  | 54.5  | 54.5 | 54.5  |
| ≥ 20000         | 22.5                     | 37.5 | 43.1 | 43.5 | 52.3 | 53.2  | 57.2 | 58.9  | 58.9   | 59.7 | 59.7  | 59.9 | 59.5  | 60.6  | 60.6 | 60.6  |
| ≥ 18000         | 22.5                     | 37.6 | 43.2 | 43.6 | 52.5 | 54.7  | 57.4 | 59.0  | 59.0   | 59.9 | 60.1  | 60.1 | 60.6  | 60.6  | 60.6 | 60.6  |
| ≥ 16000         | 22.5                     | 37.6 | 43.2 | 43.6 | 52.5 | 54.7  | 57.4 | 59.0  | 59.0   | 59.8 | 60.1  | 60.1 | 60.6  | 60.6  | 60.6 | 60.6  |
| ≥ 14000         | 22.5                     | 38.1 | 43.7 | 43.7 | 53.0 | 54.5  | 57.9 | 59.5  | 59.5   | 60.4 | 60.6  | 60.6 | 61.2  | 61.3  | 61.3 | 61.3  |
| ≥ 12000         | 24.7                     | 39.6 | 45.5 | 51.0 | 54.8 | 56.3  | 59.7 | 61.3  | 61.3   | 62.1 | 62.4  | 62.4 | 62.9  | 63.1  | 63.1 | 63.1  |
| ≥ 10000         | 25.6                     | 42.5 | 48.5 | 54.4 | 53.4 | 59.9  | 63.8 | 65.4  | 65.4   | 66.2 | 66.5  | 66.5 | 67.0  | 67.2  | 67.2 | 67.2  |
| ≥ 9000          | 25.6                     | 42.9 | 48.9 | 54.9 | 59.0 | 60.5  | 64.3 | 65.9  | 65.9   | 66.8 | 67.0  | 67.0 | 67.6  | 67.7  | 67.7 | 67.7  |
| ≥ 8000          | 25.6                     | 44.4 | 52.5 | 56.9 | 61.2 | 63.1  | 67.4 | 69.1  | 69.1   | 69.9 | 70.2  | 70.2 | 70.7  | 70.8  | 70.8 | 70.8  |
| ≥ 7000          | 27.5                     | 45.8 | 51.9 | 59.1 | 63.5 | 65.4  | 69.9 | 71.5  | 71.5   | 72.3 | 72.6  | 72.6 | 73.2  | 73.3  | 73.3 | 73.3  |
| ≥ 6000          | 27.5                     | 46.0 | 52.5 | 59.9 | 64.4 | 66.8  | 71.3 | 72.9  | 72.9   | 73.7 | 74.0  | 74.0 | 74.5  | 74.7  | 74.7 | 74.7  |
| ≥ 5000          | 28.2                     | 47.7 | 54.5 | 62.4 | 67.0 | 69.6  | 74.3 | 75.9  | 75.9   | 76.7 | 77.0  | 77.0 | 77.5  | 77.7  | 77.7 | 77.7  |
| ≥ 4500          | 28.6                     | 48.5 | 55.9 | 63.8 | 68.5 | 71.4  | 76.0 | 77.7  | 77.7   | 78.5 | 78.7  | 78.7 | 79.3  | 79.4  | 79.4 | 79.4  |
| ≥ 4000          | 29.2                     | 50.3 | 57.5 | 66.1 | 71.3 | 74.1  | 79.7 | 80.4  | 80.4   | 81.2 | 81.5  | 81.5 | 82.0  | 82.2  | 82.2 | 82.2  |
| ≥ 3500          | 29.2                     | 51.5 | 58.1 | 66.3 | 71.5 | 74.4  | 79.7 | 80.9  | 80.9   | 81.7 | 82.0  | 82.0 | 82.6  | 82.7  | 82.7 | 82.7  |
| ≥ 3000          | 29.3                     | 51.2 | 58.3 | 67.7 | 72.9 | 75.9  | 82.9 | 82.8  | 82.6   | 83.7 | 83.9  | 83.9 | 84.5  | 84.6  | 84.6 | 84.6  |
| ≥ 2500          | 30.1                     | 52.5 | 60.9 | 69.5 | 74.8 | 78.1  | 83.1 | 85.1  | 85.1   | 86.0 | 86.2  | 86.2 | 86.8  | 86.9  | 86.9 | 86.9  |
| ≥ 2000          | 30.4                     | 52.7 | 61.2 | 69.9 | 75.5 | 78.7  | 83.8 | 85.8  | 85.6   | 86.6 | 86.9  | 86.9 | 87.5  | 87.6  | 87.6 | 87.6  |
| ≥ 1800          | 30.4                     | 52.9 | 61.3 | 70.2 | 75.7 | 79.2  | 84.2 | 86.2  | 86.2   | 87.1 | 87.3  | 87.3 | 87.9  | 88.0  | 88.0 | 88.0  |
| ≥ 1500          | 30.4                     | 53.0 | 61.6 | 70.4 | 76.2 | 79.6  | 84.6 | 86.6  | 86.6   | 87.5 | 87.7  | 87.7 | 88.3  | 88.4  | 88.4 | 88.4  |
| ≥ 1200          | 30.7                     | 53.5 | 62.3 | 71.5 | 77.2 | 80.8  | 85.8 | 88.0  | 88.0   | 89.0 | 89.4  | 89.4 | 89.9  | 90.1  | 90.1 | 90.1  |
| ≥ 1000          | 31.2                     | 54.4 | 63.2 | 72.6 | 73.3 | 82.0  | 87.1 | 89.2  | 89.2   | 90.2 | 90.6  | 90.6 | 91.1  | 91.3  | 91.3 | 91.3  |
| ≥ 900           | 31.2                     | 54.5 | 63.4 | 73.0 | 73.7 | 82.4  | 87.5 | 89.6  | 89.6   | 90.6 | 91.0  | 91.0 | 91.6  | 91.7  | 91.7 | 91.7  |
| ≥ 800           | 31.3                     | 54.6 | 63.5 | 73.3 | 73.2 | 82.8  | 87.9 | 90.1  | 90.1   | 91.0 | 91.4  | 91.4 | 92.0  | 92.1  | 92.1 | 92.1  |
| ≥ 700           | 31.3                     | 55.0 | 63.9 | 73.7 | 8.0  | 83.3  | 88.8 | 91.0  | 91.0   | 92.0 | 92.4  | 92.4 | 92.9  | 93.1  | 93.1 | 93.1  |
| ≥ 600           | 31.3                     | 55.6 | 64.6 | 74.5 | 8.8  | 84.6  | 90.1 | 92.2  | 92.2   | 93.2 | 93.6  | 93.6 | 94.1  | 94.3  | 94.3 | 94.3  |
| ≥ 500           | 31.7                     | 55.6 | 64.6 | 74.5 | 8.8  | 84.6  | 90.1 | 92.4  | 92.4   | 93.3 | 93.7  | 93.7 | 94.3  | 94.4  | 94.4 | 94.4  |
| ≥ 400           | 31.3                     | 55.7 | 64.9 | 75.1 | 81.6 | 85.4  | 91.0 | 93.7  | 93.7   | 94.7 | 95.1  | 95.1 | 95.6  | 95.8  | 95.8 | 95.8  |
| ≥ 300           | 31.3                     | 55.7 | 65.0 | 75.5 | 82.0 | 85.8  | 91.6 | 94.7  | 94.7   | 95.6 | 96.0  | 96.0 | 96.6  | 96.7  | 96.7 | 96.7  |
| ≥ 200           | 31.3                     | 55.7 | 65.0 | 75.5 | 82.2 | 86.0  | 92.2 | 95.5  | 95.5   | 96.6 | 97.3  | 97.3 | 98.0  | 98.1  | 98.1 | 98.1  |
| ≥ 100           | 31.3                     | 55.7 | 65.0 | 75.5 | 82.2 | 86.0  | 92.4 | 95.8  | 95.8   | 97.4 | 98.1  | 98.1 | 98.9  | 99.0  | 99.0 | 99.2  |
| ≥ 0             | 31.3                     | 55.7 | 65.0 | 75.5 | 82.2 | 86.0  | 92.4 | 95.8  | 95.8   | 97.4 | 98.2  | 98.2 | 99.1  | 99.2  | 99.2 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 734

U.S. AIR FORCE  
CLIMATE DIVISION  
METEOROLOGICAL SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
YOUNGSTOWN MAP OH

73-81

YEARS

AUG

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0300-0500  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥0.9 | ≥0.8 | ≥0.7 | ≥0.6 | ≥0.5 | ≥0   |
| NO CEILING      | 17.5                     | 26.9 | 31.3 | 37.1 | 40.1 | 42.7 | 46.0 | 47.9 | 47.9 | 48.3 | 48.4 | 48.4 | 48.4 | 48.6 | 49.1 | 49.7 |
| ≥ 20000         | 17.1                     | 26.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 18000         | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 16000         | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 14000         | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 12000         | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 10000         | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 9000          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 8000          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 7000          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 6000          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 5000          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 4500          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 4000          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 3500          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 3000          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 2500          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 2000          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 1800          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 1500          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 1200          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 1000          | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 900           | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 800           | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 700           | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 600           | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 500           | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 400           | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 300           | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 200           | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 100           | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |
| ≥ 0             | 18.1                     | 23.2 | 32.0 | 37.7 | 42.7 | 45.4 | 48.8 | 51.2 | 51.2 | 51.8 | 52.0 | 52.0 | 52.0 | 52.1 | 52.9 | 53.6 |

TOTAL NUMBER OF OBSERVATIONS 735

FEDERAL CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP 0-

73-81

YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1600-2600  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |      |       |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|-------|------|-------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥0.5 | ≥0.25 | ≥0.15 | ≥0.1 | ≥0.05 | ≥0   |
| NO CEILING      | 12.3                     | 19.1 | 21.3 | 24.5 | 25.9 | 29.2 | 34.7 | 36.8 | 36.8 | 40.0 | 40.4  | 40.4  | 40.7 | 40.7  | 41.0 |
| ≥ 20000         | 13.3                     | 21.9 | 25.1 | 28.2 | 30.5 | 35.0 | 41.3 | 43.9 | 43.9 | 47.2 | 47.8  | 47.8  | 48.2 | 48.2  | 48.7 |
| ≥ 18000         | 13.5                     | 21.8 | 25.1 | 28.2 | 30.5 | 35.2 | 41.4 | 44.1 | 44.1 | 47.3 | 47.9  | 47.9  | 48.3 | 48.3  | 48.8 |
| ≥ 16000         | 13.5                     | 21.8 | 25.1 | 28.2 | 30.5 | 35.2 | 41.4 | 44.1 | 44.1 | 47.3 | 47.9  | 47.9  | 48.3 | 48.3  | 48.8 |
| ≥ 14000         | 13.7                     | 21.9 | 25.2 | 28.3 | 30.6 | 35.1 | 41.5 | 44.2 | 44.2 | 47.5 | 48.1  | 48.1  | 48.4 | 48.4  | 48.9 |
| ≥ 12000         | 14.0                     | 22.3 | 26.4 | 29.8 | 32.2 | 36.7 | 43.1 | 45.9 | 45.9 | 49.3 | 50.0  | 50.0  | 50.5 | 50.5  | 51.0 |
| ≥ 10000         | 15.1                     | 25.2 | 29.4 | 33.1 | 35.5 | 40.8 | 47.7 | 50.8 | 50.8 | 54.2 | 55.0  | 55.0  | 55.4 | 55.4  | 55.9 |
| ≥ 9000          | 15.3                     | 25.3 | 29.5 | 33.4 | 35.8 | 41.2 | 48.2 | 51.3 | 51.3 | 54.7 | 55.6  | 55.6  | 56.1 | 56.1  | 56.5 |
| ≥ 8000          | 15.5                     | 25.9 | 30.4 | 34.5 | 37.0 | 42.5 | 49.6 | 52.8 | 52.8 | 56.2 | 57.0  | 57.0  | 57.5 | 57.5  | 58.0 |
| ≥ 7000          | 16.0                     | 26.3 | 30.5 | 35.2 | 37.8 | 43.2 | 50.5 | 53.8 | 53.8 | 57.3 | 58.1  | 58.1  | 58.6 | 58.6  | 59.1 |
| ≥ 6000          | 16.1                     | 26.5 | 31.2 | 35.7 | 38.5 | 44.1 | 51.3 | 54.8 | 54.8 | 58.4 | 59.3  | 59.3  | 59.8 | 59.8  | 60.3 |
| ≥ 5000          | 16.6                     | 27.6 | 32.3 | 37.5 | 40.6 | 46.2 | 53.8 | 57.5 | 57.5 | 61.1 | 62.1  | 62.1  | 62.6 | 62.6  | 63.1 |
| ≥ 4500          | 16.6                     | 27.7 | 32.4 | 37.8 | 41.0 | 47.0 | 54.7 | 58.5 | 58.5 | 62.1 | 63.1  | 63.1  | 63.6 | 63.6  | 64.0 |
| ≥ 4000          | 17.3                     | 28.7 | 33.4 | 38.9 | 42.1 | 48.1 | 57.0 | 60.9 | 60.9 | 64.6 | 65.7  | 65.7  | 66.2 | 66.2  | 66.7 |
| ≥ 3500          | 17.6                     | 29.1 | 33.5 | 39.6 | 42.9 | 48.9 | 57.9 | 61.9 | 61.9 | 65.6 | 66.7  | 66.7  | 67.2 | 67.2  | 67.7 |
| ≥ 3000          | 18.0                     | 30.1 | 35.5 | 41.4 | 44.7 | 50.7 | 59.9 | 64.2 | 64.2 | 67.9 | 69.0  | 69.0  | 69.6 | 69.6  | 70.2 |
| ≥ 2500          | 18.4                     | 30.5 | 35.8 | 42.0 | 45.3 | 51.7 | 61.1 | 65.5 | 65.5 | 69.2 | 70.3  | 70.3  | 70.9 | 70.9  | 71.5 |
| ≥ 2000          | 18.8                     | 30.9 | 36.4 | 42.7 | 46.0 | 52.7 | 62.3 | 66.8 | 66.8 | 70.6 | 71.7  | 71.7  | 72.3 | 72.3  | 72.9 |
| ≥ 1800          | 18.8                     | 31.0 | 36.6 | 42.9 | 46.1 | 52.8 | 62.5 | 67.1 | 67.1 | 70.8 | 71.9  | 71.9  | 72.5 | 72.5  | 73.1 |
| ≥ 1500          | 19.8                     | 31.5 | 37.2 | 43.6 | 47.1 | 53.8 | 63.7 | 68.9 | 68.9 | 72.8 | 73.8  | 73.8  | 74.5 | 74.5  | 75.1 |
| ≥ 1200          | 18.9                     | 32.0 | 37.8 | 44.3 | 47.8 | 54.7 | 64.9 | 70.3 | 70.3 | 74.7 | 75.8  | 75.8  | 76.4 | 76.4  | 77.1 |
| ≥ 1000          | 18.9                     | 32.2 | 38.3 | 44.8 | 48.3 | 55.6 | 66.0 | 71.7 | 71.7 | 76.2 | 77.2  | 77.2  | 77.8 | 77.8  | 78.7 |
| ≥ 900           | 18.9                     | 32.3 | 38.3 | 45.0 | 48.7 | 56.1 | 66.6 | 72.8 | 72.8 | 77.4 | 78.5  | 78.5  | 79.1 | 79.1  | 80.0 |
| ≥ 800           | 19.1                     | 32.8 | 38.7 | 45.5 | 49.2 | 56.8 | 67.8 | 74.0 | 74.0 | 78.8 | 80.0  | 80.0  | 80.8 | 80.8  | 81.7 |
| ≥ 700           | 19.1                     | 32.8 | 38.7 | 45.5 | 49.2 | 57.1 | 68.4 | 74.9 | 74.9 | 80.0 | 81.2  | 81.2  | 82.0 | 82.0  | 82.9 |
| ≥ 600           | 19.1                     | 32.8 | 38.9 | 45.8 | 49.4 | 57.5 | 69.0 | 75.5 | 75.5 | 81.0 | 82.2  | 82.2  | 82.9 | 82.9  | 83.9 |
| ≥ 500           | 19.2                     | 33.1 | 39.5 | 46.5 | 50.1 | 58.6 | 70.5 | 78.3 | 78.5 | 84.3 | 85.5  | 85.5  | 86.3 | 86.3  | 87.3 |
| ≥ 400           | 19.2                     | 33.2 | 39.7 | 46.7 | 50.5 | 59.1 | 71.7 | 80.1 | 80.3 | 86.7 | 88.1  | 88.1  | 89.0 | 89.0  | 90.3 |
| ≥ 300           | 19.2                     | 33.2 | 39.7 | 46.9 | 50.7 | 59.4 | 72.4 | 81.8 | 82.1 | 89.2 | 90.8  | 90.8  | 91.8 | 91.8  | 92.7 |
| ≥ 200           | 19.2                     | 33.2 | 39.7 | 46.9 | 50.7 | 59.4 | 72.6 | 82.2 | 82.4 | 90.6 | 93.0  | 93.0  | 94.2 | 94.3  | 95.4 |
| ≥ 100           | 19.2                     | 33.2 | 39.7 | 46.9 | 50.7 | 59.4 | 72.6 | 82.3 | 82.6 | 90.7 | 93.5  | 93.5  | 94.7 | 94.8  | 96.0 |
| ≥ 0             | 19.2                     | 33.2 | 39.7 | 46.9 | 50.7 | 59.4 | 72.6 | 82.3 | 82.6 | 90.7 | 93.5  | 93.5  | 94.7 | 94.8  | 96.2 |

TOTAL NUMBER OF OBSERVATIONS 826

AFMIL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 25 YOUNGESTOWN MAP OH  
STATION NAME

73-81

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-1100  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |       |       |        |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|--------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.0 | ≥0.5 | ≥0.25 | ≥0.15 | ≥0.10 | ≥0.05 | ≥0.025 | ≥0.01 |
| NO CEILING      | 25.8                     | 25.8 | 27.4 | 30.8 | 32.5 | 36.7 | 38.7 | 39.3 | 39.3 | 39.7 | 39.7  | 39.7  | 39.7  | 39.7  | 39.7   | 39.7  |
| ≥ 20000         | 27.7                     | 31.8 | 32.9 | 36.7 | 39.1 | 44.1 | 45.5 | 47.1 | 47.1 | 47.5 | 47.5  | 47.5  | 47.5  | 47.5  | 47.5   | 47.5  |
| ≥ 18000         | 27.7                     | 31.8 | 32.9 | 36.7 | 39.2 | 44.4 | 46.7 | 47.3 | 47.3 | 47.7 | 47.7  | 47.7  | 47.7  | 47.7  | 47.7   | 47.7  |
| ≥ 16000         | 27.7                     | 31.8 | 32.9 | 36.7 | 39.2 | 44.4 | 46.7 | 47.3 | 47.3 | 47.7 | 47.7  | 47.7  | 47.7  | 47.7  | 47.7   | 47.7  |
| ≥ 14000         | 27.7                     | 31.8 | 33.3 | 37.1 | 39.6 | 45.0 | 47.3 | 48.0 | 48.0 | 48.3 | 48.3  | 48.3  | 48.3  | 48.3  | 48.3   | 48.3  |
| ≥ 12000         | 28.0                     | 32.5 | 34.7 | 38.6 | 41.4 | 46.8 | 49.3 | 49.9 | 49.9 | 50.4 | 50.4  | 50.4  | 50.4  | 50.4  | 50.4   | 50.4  |
| ≥ 10000         | 28.9                     | 34.9 | 37.5 | 41.4 | 44.5 | 51.1 | 52.8 | 53.4 | 53.4 | 53.9 | 53.9  | 53.9  | 53.9  | 53.9  | 53.9   | 53.9  |
| ≥ 9000          | 28.9                     | 35.0 | 37.6 | 41.5 | 44.6 | 50.2 | 52.9 | 53.6 | 53.6 | 54.1 | 54.1  | 54.1  | 54.1  | 54.1  | 54.1   | 54.1  |
| ≥ 8000          | 29.0                     | 35.6 | 38.3 | 42.4 | 45.5 | 51.1 | 53.8 | 54.5 | 54.5 | 55.0 | 55.0  | 55.0  | 55.0  | 55.0  | 55.0   | 55.0  |
| ≥ 7000          | 29.2                     | 35.6 | 38.6 | 42.8 | 46.0 | 51.7 | 54.4 | 55.1 | 55.1 | 55.6 | 55.6  | 55.6  | 55.6  | 55.6  | 55.6   | 55.6  |
| ≥ 6000          | 29.8                     | 36.2 | 38.9 | 43.1 | 46.4 | 52.2 | 54.9 | 55.7 | 55.7 | 56.2 | 56.2  | 56.2  | 56.2  | 56.2  | 56.2   | 56.2  |
| ≥ 5000          | 29.7                     | 37.1 | 40.2 | 44.6 | 49.5 | 54.5 | 57.5 | 58.5 | 58.5 | 59.0 | 59.0  | 59.0  | 59.0  | 59.0  | 59.0   | 59.0  |
| ≥ 4500          | 29.8                     | 37.5 | 41.0 | 45.5 | 49.4 | 55.6 | 58.7 | 59.7 | 59.7 | 60.2 | 60.2  | 60.2  | 60.2  | 60.2  | 60.2   | 60.2  |
| ≥ 4000          | 21.4                     | 39.4 | 43.3 | 47.8 | 51.9 | 58.3 | 61.6 | 62.5 | 62.5 | 63.0 | 63.0  | 63.0  | 63.0  | 63.0  | 63.0   | 63.0  |
| ≥ 3500          | 21.9                     | 40.2 | 44.2 | 48.8 | 53.3 | 61.0 | 63.4 | 64.4 | 64.4 | 64.9 | 64.9  | 64.9  | 64.9  | 64.9  | 64.9   | 64.9  |
| ≥ 3000          | 22.7                     | 41.7 | 45.7 | 50.3 | 54.9 | 61.9 | 65.4 | 66.7 | 66.7 | 67.2 | 67.2  | 67.2  | 67.2  | 67.2  | 67.2   | 67.2  |
| ≥ 2500          | 23.2                     | 43.6 | 47.8 | 52.7 | 57.5 | 64.9 | 68.4 | 70.0 | 70.0 | 70.5 | 70.5  | 70.5  | 70.5  | 70.5  | 70.5   | 70.5  |
| ≥ 2000          | 25.0                     | 46.2 | 50.8 | 56.0 | 61.1 | 68.9 | 72.4 | 74.3 | 74.4 | 74.9 | 74.9  | 74.9  | 74.9  | 74.9  | 74.9   | 74.9  |
| ≥ 1800          | 25.7                     | 47.5 | 52.3 | 57.5 | 62.8 | 70.7 | 74.5 | 76.4 | 76.5 | 77.0 | 77.0  | 77.0  | 77.0  | 77.0  | 77.0   | 77.0  |
| ≥ 1500          | 26.3                     | 49.6 | 54.4 | 59.8 | 65.8 | 74.3 | 78.4 | 80.3 | 80.5 | 81.0 | 81.0  | 81.0  | 81.0  | 81.0  | 81.0   | 81.0  |
| ≥ 1200          | 27.2                     | 51.5 | 56.1 | 62.5 | 68.6 | 77.6 | 82.0 | 84.2 | 84.3 | 84.8 | 84.8  | 84.8  | 84.8  | 84.8  | 84.8   | 84.8  |
| ≥ 1000          | 27.2                     | 51.7 | 57.1 | 63.3 | 69.6 | 79.1 | 84.1 | 86.4 | 86.5 | 87.0 | 87.0  | 87.0  | 87.0  | 87.0  | 87.0   | 87.0  |
| ≥ 900           | 27.3                     | 51.9 | 57.5 | 63.8 | 70.1 | 79.9 | 85.0 | 87.5 | 87.6 | 88.4 | 88.4  | 88.4  | 88.4  | 88.4  | 88.4   | 88.4  |
| ≥ 800           | 27.4                     | 52.2 | 57.8 | 64.3 | 70.7 | 80.7 | 86.2 | 88.8 | 88.9 | 89.6 | 89.6  | 89.6  | 89.6  | 89.6  | 89.6   | 89.6  |
| ≥ 700           | 27.4                     | 52.3 | 58.1 | 64.5 | 71.1 | 81.3 | 87.1 | 90.0 | 90.1 | 90.9 | 90.9  | 90.9  | 91.0  | 91.0  | 91.0   | 91.0  |
| ≥ 600           | 27.6                     | 52.8 | 58.6 | 65.3 | 71.9 | 82.6 | 88.6 | 92.1 | 92.2 | 93.0 | 93.1  | 93.1  | 93.2  | 93.2  | 93.2   | 93.2  |
| ≥ 500           | 27.7                     | 52.9 | 58.7 | 65.4 | 72.2 | 83.2 | 89.0 | 93.9 | 94.2 | 95.1 | 95.2  | 95.2  | 95.3  | 95.3  | 95.3   | 95.3  |
| ≥ 400           | 27.7                     | 53.2 | 59.1 | 66.0 | 72.9 | 84.1 | 91.0 | 95.4 | 95.7 | 96.8 | 97.0  | 97.1  | 97.2  | 97.2  | 97.2   | 97.2  |
| ≥ 300           | 27.7                     | 53.2 | 59.1 | 66.1 | 73.1 | 84.2 | 91.6 | 96.3 | 96.7 | 98.3 | 98.6  | 98.6  | 98.8  | 98.8  | 98.8   | 98.8  |
| ≥ 200           | 27.7                     | 53.2 | 59.1 | 66.1 | 73.1 | 84.2 | 91.6 | 96.4 | 96.8 | 98.4 | 98.9  | 98.9  | 99.4  | 99.5  | 99.5   | 99.5  |
| ≥ 100           | 27.7                     | 53.2 | 59.1 | 66.1 | 73.1 | 84.2 | 91.6 | 96.4 | 96.8 | 98.4 | 99.0  | 99.0  | 99.6  | 99.8  | 99.8   | 99.8  |
| ≥ 0             | 27.7                     | 53.2 | 59.1 | 66.1 | 73.1 | 84.2 | 91.6 | 96.4 | 96.8 | 98.4 | 99.0  | 99.0  | 99.6  | 99.8  | 99.8   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 809

CLIMATE CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (LST)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2   | ≥2   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1    | ≥1    | ≥1    | ≥1    |
| NO CEILING      | 16.8                     | 22.5 | 24.7 | 26.1 | 25.4 | 27.7 | 28.6 | 29.0 | 29.0 | 29.1 | 29.1 | 29.1 | 29.1  | 29.1  | 29.1  | 29.1  |
| ≥ 20000         | 27.7                     | 28.8 | 31.8 | 32.9 | 33.9 | 35.1 | 36.2 | 36.6 | 36.6 | 36.7 | 36.7 | 36.7 | 36.7  | 36.7  | 36.7  | 36.7  |
| ≥ 18000         | 27.7                     | 28.8 | 31.8 | 32.9 | 33.9 | 35.1 | 36.2 | 36.6 | 36.6 | 36.7 | 36.7 | 36.7 | 36.7  | 36.7  | 36.7  | 36.7  |
| ≥ 16000         | 27.7                     | 28.8 | 31.8 | 32.9 | 33.9 | 35.1 | 36.2 | 36.6 | 36.6 | 36.7 | 36.7 | 36.7 | 36.7  | 36.7  | 36.7  | 36.7  |
| ≥ 14000         | 27.7                     | 28.8 | 31.1 | 33.2 | 34.1 | 35.4 | 36.5 | 36.8 | 36.8 | 37.0 | 37.0 | 37.0 | 37.0  | 37.0  | 37.0  | 37.0  |
| ≥ 12000         | 21.9                     | 31.1 | 33.2 | 35.3 | 36.5 | 37.7 | 38.8 | 39.2 | 39.2 | 39.3 | 39.3 | 39.3 | 39.3  | 39.3  | 39.3  | 39.3  |
| ≥ 10000         | 23.0                     | 33.9 | 36.2 | 38.4 | 41.1 | 41.4 | 42.5 | 42.8 | 42.8 | 43.0 | 43.0 | 43.0 | 43.0  | 43.0  | 43.0  | 43.0  |
| ≥ 9000          | 23.0                     | 34.0 | 36.4 | 38.6 | 40.3 | 41.5 | 42.6 | 43.0 | 43.0 | 43.1 | 43.1 | 43.1 | 43.1  | 43.1  | 43.1  | 43.1  |
| ≥ 8000          | 23.1                     | 35.1 | 37.7 | 40.1 | 41.9 | 43.1 | 44.2 | 44.6 | 44.6 | 44.7 | 44.7 | 44.7 | 44.7  | 44.7  | 44.7  | 44.7  |
| ≥ 7000          | 23.6                     | 35.6 | 38.2 | 40.6 | 42.4 | 43.7 | 44.9 | 45.3 | 45.3 | 45.4 | 45.4 | 45.4 | 45.4  | 45.4  | 45.4  | 45.4  |
| ≥ 6000          | 23.5                     | 35.6 | 38.4 | 40.9 | 42.6 | 43.9 | 45.2 | 45.5 | 45.5 | 45.7 | 45.7 | 45.7 | 45.7  | 45.7  | 45.7  | 45.7  |
| ≥ 5000          | 24.6                     | 37.0 | 39.9 | 42.4 | 44.4 | 46.0 | 47.4 | 47.7 | 47.7 | 47.9 | 47.9 | 47.9 | 47.9  | 47.9  | 47.9  | 47.9  |
| ≥ 4500          | 25.5                     | 38.1 | 41.1 | 43.9 | 46.1 | 47.9 | 49.4 | 49.9 | 49.9 | 50.1 | 50.1 | 50.1 | 50.1  | 50.1  | 50.1  | 50.1  |
| ≥ 4000          | 28.2                     | 42.4 | 45.7 | 49.1 | 51.7 | 53.9 | 55.4 | 55.9 | 55.9 | 56.1 | 56.1 | 56.1 | 56.1  | 56.1  | 56.1  | 56.1  |
| ≥ 3500          | 31.6                     | 46.9 | 50.9 | 54.7 | 57.4 | 60.7 | 62.5 | 63.3 | 63.3 | 63.4 | 63.4 | 63.4 | 63.4  | 63.4  | 63.4  | 63.4  |
| ≥ 3000          | 32.5                     | 51.4 | 55.2 | 59.5 | 62.9 | 66.6 | 68.9 | 69.6 | 69.6 | 69.8 | 69.8 | 69.8 | 69.8  | 69.8  | 69.8  | 69.8  |
| ≥ 2500          | 34.3                     | 55.3 | 61.2 | 65.7 | 70.7 | 75.2 | 78.0 | 78.8 | 78.8 | 78.9 | 78.9 | 78.9 | 78.9  | 78.9  | 78.9  | 78.9  |
| ≥ 2000          | 35.4                     | 58.4 | 65.5 | 71.6 | 76.9 | 81.9 | 84.8 | 85.9 | 85.9 | 86.0 | 86.0 | 86.0 | 86.0  | 86.0  | 86.0  | 86.0  |
| ≥ 1800          | 35.6                     | 59.4 | 66.6 | 72.1 | 78.6 | 84.1 | 87.1 | 88.4 | 88.4 | 88.5 | 88.5 | 88.5 | 88.5  | 88.5  | 88.5  | 88.5  |
| ≥ 1500          | 35.7                     | 61.0 | 67.2 | 73.1 | 80.0 | 85.9 | 89.1 | 90.3 | 90.3 | 90.5 | 90.6 | 90.6 | 90.6  | 90.6  | 90.6  | 90.6  |
| ≥ 1200          | 36.0                     | 60.8 | 68.2 | 74.7 | 81.9 | 88.6 | 92.0 | 93.4 | 93.4 | 93.5 | 93.8 | 93.8 | 93.8  | 93.8  | 93.8  | 93.8  |
| ≥ 1000          | 36.2                     | 61.2 | 68.7 | 75.4 | 82.6 | 89.4 | 93.1 | 94.9 | 94.9 | 95.0 | 95.3 | 95.3 | 95.3  | 95.3  | 95.3  | 95.3  |
| ≥ 900           | 36.4                     | 61.7 | 69.3 | 76.0 | 83.2 | 90.0 | 94.0 | 95.8 | 95.8 | 96.0 | 96.3 | 96.3 | 96.3  | 96.3  | 96.3  | 96.3  |
| ≥ 800           | 36.4                     | 61.7 | 69.3 | 76.0 | 83.2 | 90.0 | 94.0 | 95.8 | 95.8 | 96.0 | 96.3 | 96.3 | 96.3  | 96.3  | 96.3  | 96.3  |
| ≥ 700           | 36.5                     | 61.9 | 69.5 | 76.4 | 83.6 | 90.6 | 95.1 | 96.9 | 96.9 | 97.1 | 97.4 | 97.4 | 97.4  | 97.4  | 97.4  | 97.4  |
| ≥ 600           | 36.7                     | 62.3 | 69.9 | 76.7 | 84.0 | 90.9 | 95.5 | 97.4 | 97.4 | 97.7 | 98.0 | 98.0 | 98.0  | 98.0  | 98.0  | 98.0  |
| ≥ 500           | 36.7                     | 62.4 | 70.0 | 76.9 | 84.1 | 91.2 | 96.2 | 98.3 | 98.3 | 98.5 | 98.9 | 98.9 | 98.9  | 99.0  | 99.0  | 99.0  |
| ≥ 400           | 36.7                     | 62.4 | 70.0 | 77.0 | 84.2 | 91.4 | 96.9 | 99.0 | 99.0 | 99.3 | 99.6 | 99.6 | 99.6  | 99.6  | 99.6  | 99.6  |
| ≥ 300           | 36.7                     | 62.4 | 70.1 | 77.1 | 84.3 | 91.6 | 97.1 | 99.1 | 99.1 | 99.4 | 99.8 | 99.8 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 200           | 36.7                     | 62.4 | 70.0 | 77.1 | 84.3 | 91.6 | 97.1 | 99.1 | 99.1 | 99.4 | 99.8 | 99.8 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 100           | 36.7                     | 62.4 | 70.0 | 77.1 | 84.3 | 91.6 | 97.1 | 99.1 | 99.1 | 99.4 | 99.8 | 99.8 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 0             | 36.7                     | 62.4 | 70.0 | 77.1 | 84.3 | 91.6 | 97.1 | 99.1 | 99.1 | 99.4 | 99.8 | 99.8 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 817

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

AUG

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.2 | ≥1   | ≥.75 | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.20 |
| NO CEILING      | 14.8                     | 26.7 | 23.7 | 30.5 | 32.1 | 33.7 | 34.9 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| ≥ 20000         | 23.7                     | 34.9 | 37.7 | 39.7 | 41.8 | 44.5 | 45.7 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 |
| ≥ 18000         | 24.1                     | 35.4 | 38.2 | 40.2 | 42.3 | 45.0 | 46.2 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 |
| ≥ 16000         | 24.1                     | 35.4 | 38.2 | 40.2 | 42.3 | 45.0 | 46.2 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 |
| ≥ 14000         | 24.4                     | 35.8 | 38.6 | 40.6 | 42.6 | 45.3 | 46.6 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 | 46.7 |
| ≥ 12000         | 25.1                     | 37.6 | 40.9 | 43.3 | 45.3 | 48.0 | 49.3 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 |
| ≥ 10000         | 24.0                     | 39.5 | 43.0 | 45.5 | 47.8 | 50.6 | 51.8 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2 |
| ≥ 9000          | 26.0                     | 39.7 | 43.5 | 46.0 | 48.4 | 51.2 | 52.5 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 | 52.8 |
| ≥ 8000          | 26.9                     | 40.8 | 44.7 | 47.4 | 49.9 | 52.7 | 53.9 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 | 54.3 |
| ≥ 7000          | 27.5                     | 41.4 | 45.3 | 48.2 | 50.6 | 53.4 | 54.7 | 55.0 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 |
| ≥ 6000          | 27.6                     | 41.7 | 45.6 | 48.4 | 51.0 | 54.2 | 55.4 | 55.8 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 | 56.0 |
| ≥ 5000          | 28.6                     | 43.5 | 47.5 | 50.6 | 53.2 | 57.0 | 58.5 | 58.8 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 | 59.1 |
| ≥ 4500          | 30.4                     | 46.0 | 50.6 | 53.7 | 56.3 | 60.3 | 62.0 | 62.5 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 | 62.7 |
| ≥ 4000          | 33.5                     | 51.6 | 57.5 | 61.0 | 65.1 | 67.4 | 71.3 | 72.1 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3 |
| ≥ 3500          | 34.4                     | 55.0 | 61.3 | 65.3 | 69.6 | 74.0 | 76.1 | 77.1 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 | 77.3 |
| ≥ 3000          | 35.9                     | 57.8 | 65.0 | 69.4 | 73.8 | 78.3 | 80.8 | 81.7 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 | 82.0 |
| ≥ 2500          | 36.3                     | 61.0 | 69.5 | 75.2 | 80.8 | 86.3 | 89.1 | 90.1 | 90.3 | 90.4 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6 |
| ≥ 2000          | 37.6                     | 62.4 | 71.1 | 77.0 | 82.7 | 88.7 | 91.8 | 92.8 | 93.0 | 93.1 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 | 93.3 |
| ≥ 1800          | 37.7                     | 62.7 | 71.6 | 77.6 | 83.3 | 89.6 | 92.9 | 93.9 | 94.1 | 94.2 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 | 94.4 |
| ≥ 1500          | 38.1                     | 63.4 | 72.4 | 78.7 | 84.4 | 90.8 | 94.1 | 95.3 | 95.6 | 95.7 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 | 95.8 |
| ≥ 1200          | 38.1                     | 63.7 | 72.8 | 79.0 | 84.8 | 91.2 | 94.5 | 95.8 | 96.1 | 96.2 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 |
| ≥ 1000          | 38.1                     | 63.7 | 72.8 | 79.0 | 84.8 | 91.2 | 94.5 | 95.8 | 96.1 | 96.2 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 | 96.3 |
| ≥ 900           | 38.1                     | 64.1 | 73.4 | 79.4 | 85.5 | 92.2 | 95.5 | 96.8 | 97.1 | 97.3 | 97.4 | 97.4 | 97.5 | 97.5 | 97.5 | 97.5 |
| ≥ 800           | 38.2                     | 64.1 | 73.4 | 79.8 | 85.5 | 92.4 | 96.0 | 97.4 | 97.7 | 97.9 | 98.0 | 98.0 | 98.2 | 98.2 | 98.2 | 98.2 |
| ≥ 700           | 38.2                     | 64.1 | 73.4 | 79.8 | 85.5 | 92.4 | 96.0 | 97.4 | 97.7 | 97.9 | 98.0 | 98.0 | 98.2 | 98.2 | 98.2 | 98.2 |
| ≥ 600           | 38.2                     | 64.2 | 73.5 | 79.9 | 85.7 | 92.5 | 96.1 | 97.5 | 97.8 | 98.0 | 98.2 | 98.2 | 98.3 | 98.3 | 98.3 | 98.3 |
| ≥ 500           | 38.2                     | 64.7 | 74.0 | 80.4 | 86.2 | 93.1 | 96.8 | 98.3 | 98.5 | 98.9 | 99.0 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 |
| ≥ 400           | 38.2                     | 64.7 | 74.0 | 80.5 | 86.3 | 93.4 | 97.4 | 99.1 | 99.4 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| ≥ 300           | 38.2                     | 64.7 | 74.0 | 80.5 | 86.3 | 93.4 | 97.4 | 99.1 | 99.4 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| ≥ 200           | 38.2                     | 64.7 | 74.0 | 80.5 | 86.3 | 93.4 | 97.4 | 99.1 | 99.4 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| ≥ 100           | 38.2                     | 64.7 | 74.0 | 80.5 | 86.3 | 93.4 | 97.4 | 99.1 | 99.4 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| ≥ 0             | 38.2                     | 64.7 | 74.0 | 80.5 | 86.3 | 93.4 | 97.4 | 99.1 | 99.4 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |

TOTAL NUMBER OF OBSERVATIONS

816

CLIMATE CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1800-2000

DATE

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |       |      |       |       |       |       |       |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|-------|------|-------|-------|-------|-------|-------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.25 | ≥1   | ≥.75  | ≥.5   | ≥.25  | ≥.16  | ≥.1   | ≥0    |
| NO CEILING      | 25.6                       | 36.7 | 41.3 | 47.0 | 45.2 | 48.2 | 49.8 | 49.8 | 49.8  | 49.8 | 49.8  | 49.8  | 49.8  | 49.8  | 49.8  | 49.8  |
| ≥ 20000         | 29.6                       | 44.8 | 49.2 | 51.9 | 54.4 | 58.2 | 61.8 | 61.0 | 61.0  | 61.0 | 61.0  | 61.0  | 61.0  | 61.0  | 61.0  | 61.0  |
| ≥ 18000         | 35.2                       | 44.9 | 49.7 | 52.5 | 55.1 | 58.8 | 61.4 | 61.6 | 61.6  | 61.6 | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  |
| ≥ 16000         | 37.0                       | 44.9 | 49.7 | 52.5 | 55.1 | 58.8 | 61.4 | 61.6 | 61.6  | 61.6 | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  | 61.6  |
| ≥ 14000         | 40.2                       | 45.2 | 49.9 | 52.9 | 55.4 | 59.4 | 62.0 | 62.2 | 62.2  | 62.2 | 62.2  | 62.2  | 62.2  | 62.2  | 62.2  | 62.2  |
| ≥ 12000         | 38.3                       | 46.5 | 51.6 | 54.7 | 57.5 | 61.5 | 64.1 | 64.3 | 64.3  | 64.3 | 64.3  | 64.3  | 64.3  | 64.3  | 64.3  | 64.3  |
| ≥ 10000         | 32.3                       | 49.3 | 54.6 | 58.1 | 61.3 | 66.1 | 68.7 | 69.4 | 69.4  | 69.4 | 69.4  | 69.4  | 69.4  | 69.4  | 69.4  | 69.4  |
| ≥ 9000          | 32.7                       | 49.5 | 54.7 | 58.2 | 61.4 | 66.3 | 68.8 | 69.5 | 69.5  | 69.5 | 69.5  | 69.5  | 69.5  | 69.5  | 69.5  | 69.5  |
| ≥ 8000          | 33.0                       | 51.0 | 56.3 | 59.9 | 63.3 | 68.2 | 70.8 | 71.6 | 71.6  | 71.7 | 71.7  | 71.7  | 71.7  | 71.7  | 71.7  | 71.7  |
| ≥ 7000          | 34.0                       | 51.9 | 57.1 | 60.9 | 64.3 | 69.2 | 71.7 | 72.7 | 72.7  | 72.8 | 72.8  | 72.8  | 72.8  | 72.8  | 72.8  | 72.8  |
| ≥ 6000          | 34.7                       | 52.7 | 58.0 | 61.8 | 65.2 | 70.3 | 72.8 | 73.9 | 73.9  | 74.1 | 74.1  | 74.1  | 74.1  | 74.1  | 74.1  | 74.1  |
| ≥ 5000          | 35.6                       | 54.3 | 60.4 | 64.6 | 69.1 | 73.8 | 76.5 | 77.7 | 77.7  | 77.8 | 77.8  | 77.8  | 77.8  | 77.8  | 77.8  | 77.8  |
| ≥ 4500          | 37.0                       | 56.2 | 62.7 | 66.7 | 70.3 | 76.4 | 79.2 | 80.4 | 80.4  | 80.5 | 80.5  | 80.5  | 80.5  | 80.5  | 80.5  | 80.5  |
| ≥ 4000          | 38.1                       | 59.6 | 64.7 | 69.4 | 73.3 | 79.8 | 82.6 | 83.9 | 83.9  | 84.0 | 84.0  | 84.0  | 84.0  | 84.0  | 84.0  | 84.0  |
| ≥ 3500          | 39.2                       | 59.9 | 66.3 | 71.6 | 75.5 | 82.1 | 85.3 | 86.6 | 86.6  | 86.7 | 86.7  | 86.7  | 86.7  | 86.7  | 86.7  | 86.7  |
| ≥ 3000          | 39.3                       | 61.6 | 67.2 | 73.0 | 76.9 | 83.9 | 87.5 | 88.8 | 88.8  | 88.9 | 88.9  | 88.9  | 88.9  | 88.9  | 88.9  | 88.9  |
| ≥ 2500          | 39.8                       | 61.1 | 68.1 | 74.2 | 78.6 | 86.0 | 89.5 | 91.0 | 91.0  | 91.1 | 91.1  | 91.1  | 91.1  | 91.1  | 91.1  | 91.1  |
| ≥ 2000          | 40.0                       | 61.5 | 69.7 | 74.8 | 79.3 | 87.2 | 90.7 | 92.4 | 92.6  | 92.7 | 92.7  | 92.7  | 92.7  | 92.7  | 92.7  | 92.7  |
| ≥ 1800          | 40.0                       | 61.6 | 69.7 | 75.5 | 80.1 | 88.1 | 91.8 | 93.8 | 93.9  | 94.2 | 94.2  | 94.2  | 94.2  | 94.2  | 94.2  | 94.2  |
| ≥ 1500          | 40.0                       | 62.4 | 70.7 | 76.4 | 81.1 | 89.2 | 93.1 | 95.1 | 95.2  | 95.6 | 95.6  | 95.6  | 95.6  | 95.6  | 95.6  | 95.6  |
| ≥ 1200          | 40.0                       | 62.6 | 70.3 | 76.6 | 81.5 | 89.9 | 93.8 | 96.1 | 96.2  | 96.6 | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  | 96.6  |
| ≥ 1000          | 40.0                       | 62.9 | 70.4 | 76.7 | 81.6 | 90.0 | 94.0 | 96.5 | 96.6  | 97.1 | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  | 97.1  |
| ≥ 900           | 40.0                       | 62.6 | 70.4 | 76.7 | 81.6 | 90.0 | 94.0 | 96.5 | 96.7  | 97.2 | 97.2  | 97.2  | 97.2  | 97.2  | 97.2  | 97.2  |
| ≥ 800           | 40.0                       | 62.7 | 70.5 | 76.9 | 81.7 | 90.1 | 94.2 | 96.6 | 96.8  | 97.4 | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  | 97.4  |
| ≥ 700           | 40.0                       | 62.7 | 70.6 | 77.1 | 82.0 | 90.4 | 94.5 | 97.0 | 97.2  | 97.8 | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  |
| ≥ 600           | 40.0                       | 62.9 | 70.9 | 77.3 | 82.2 | 90.6 | 94.8 | 97.2 | 97.4  | 98.1 | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  | 98.2  |
| ≥ 500           | 40.0                       | 63.0 | 71.0 | 77.6 | 82.5 | 90.9 | 95.0 | 97.4 | 97.7  | 98.3 | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  |
| ≥ 400           | 40.0                       | 63.0 | 71.0 | 77.6 | 82.5 | 91.0 | 95.6 | 98.1 | 98.3  | 99.0 | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  |
| ≥ 300           | 40.0                       | 63.0 | 71.0 | 77.6 | 82.5 | 91.0 | 95.9 | 98.4 | 98.7  | 99.4 | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| ≥ 200           | 40.0                       | 63.0 | 71.0 | 77.6 | 82.5 | 91.0 | 96.0 | 98.5 | 98.8  | 99.5 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 100           | 40.0                       | 63.0 | 71.0 | 77.6 | 82.5 | 91.0 | 96.0 | 98.5 | 98.8  | 99.5 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 0             | 40.0                       | 63.0 | 71.0 | 77.6 | 82.5 | 91.0 | 96.0 | 98.5 | 98.8  | 99.5 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS

821

FEDERAL CLIMATOLOGY BRANCH  
ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
YOUNGSTOWN MAP OH

73-81

YEARS

AUC  
MONTHS

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥.1   |
| NO CEILING      | 25.7                       | 39.6 | 43.4 | 48.2 | 50.9 | 52.4 | 53.3 | 53.4 | 53.4 | 53.7 | 53.9 | 53.9 | 54.1 | 54.1 | 54.1 | 54.2  |
| ≥ 20000         | 29.6                       | 45.3 | 49.9 | 55.1 | 53.0 | 59.7 | 61.2 | 61.9 | 61.9 | 62.2 | 62.5 | 62.5 | 62.6 | 62.6 | 62.6 | 62.7  |
| ≥ 18000         | 29.6                       | 45.3 | 49.9 | 55.1 | 58.0 | 59.7 | 61.2 | 61.9 | 61.9 | 62.2 | 62.5 | 62.5 | 62.6 | 62.6 | 62.6 | 62.7  |
| ≥ 16000         | 29.6                       | 45.3 | 49.9 | 55.1 | 58.0 | 59.7 | 61.2 | 61.9 | 61.9 | 62.2 | 62.5 | 62.5 | 62.6 | 62.6 | 62.6 | 62.7  |
| ≥ 14000         | 29.6                       | 45.7 | 51.4 | 55.8 | 58.7 | 60.4 | 61.8 | 62.6 | 62.6 | 62.9 | 63.1 | 63.1 | 63.3 | 63.3 | 63.3 | 63.4  |
| ≥ 12000         | 29.9                       | 46.2 | 51.3 | 57.0 | 59.8 | 61.5 | 63.0 | 63.8 | 63.8 | 64.0 | 64.3 | 64.3 | 64.4 | 64.4 | 64.4 | 64.6  |
| ≥ 10000         | 32.0                       | 51.0 | 56.4 | 62.3 | 66.0 | 68.1 | 69.7 | 70.5 | 70.5 | 70.7 | 71.0 | 71.0 | 71.1 | 71.1 | 71.1 | 71.3  |
| ≥ 9000          | 32.3                       | 51.3 | 56.7 | 62.6 | 66.3 | 68.4 | 69.9 | 70.7 | 70.7 | 71.0 | 71.3 | 71.3 | 71.4 | 71.4 | 71.4 | 71.5  |
| ≥ 8000          | 32.7                       | 52.1 | 57.9 | 63.9 | 67.7 | 70.1 | 71.9 | 72.7 | 72.7 | 73.0 | 73.2 | 73.2 | 73.4 | 73.4 | 73.4 | 73.5  |
| ≥ 7000          | 32.2                       | 52.4 | 58.3 | 64.3 | 68.1 | 70.5 | 72.3 | 73.1 | 73.1 | 73.4 | 73.6 | 73.6 | 73.8 | 73.8 | 73.8 | 73.9  |
| ≥ 6000          | 32.5                       | 52.7 | 58.8 | 65.0 | 68.9 | 71.7 | 73.5 | 74.7 | 74.7 | 74.9 | 75.2 | 75.2 | 75.3 | 75.3 | 75.3 | 75.5  |
| ≥ 5000          | 33.3                       | 55.0 | 61.4 | 67.8 | 71.8 | 74.5 | 76.4 | 77.6 | 77.6 | 78.1 | 78.3 | 78.3 | 78.5 | 78.5 | 78.5 | 78.6  |
| ≥ 4500          | 34.3                       | 57.2 | 63.6 | 70.3 | 74.4 | 77.2 | 79.0 | 80.2 | 80.2 | 80.7 | 81.0 | 81.0 | 81.1 | 81.1 | 81.1 | 81.2  |
| ≥ 4000          | 35.4                       | 58.5 | 65.1 | 72.0 | 76.2 | 79.1 | 81.0 | 82.2 | 82.2 | 82.7 | 82.9 | 82.9 | 83.1 | 83.1 | 83.1 | 83.2  |
| ≥ 3500          | 35.6                       | 58.8 | 65.4 | 72.4 | 76.9 | 79.8 | 81.8 | 83.1 | 83.1 | 83.6 | 83.9 | 83.9 | 84.0 | 84.0 | 84.0 | 84.1  |
| ≥ 3000          | 36.1                       | 61.1 | 67.2 | 74.7 | 79.7 | 82.7 | 84.6 | 86.1 | 86.1 | 86.6 | 86.9 | 86.9 | 87.0 | 87.0 | 87.0 | 87.1  |
| ≥ 2500          | 36.7                       | 61.3 | 68.5 | 76.4 | 81.6 | 84.8 | 86.7 | 88.2 | 88.2 | 88.7 | 89.0 | 89.0 | 89.1 | 89.1 | 89.1 | 89.2  |
| ≥ 2000          | 36.7                       | 61.9 | 69.6 | 78.0 | 83.2 | 86.7 | 88.8 | 90.3 | 90.3 | 90.8 | 91.1 | 91.1 | 91.2 | 91.2 | 91.2 | 91.3  |
| ≥ 1800          | 36.7                       | 62.2 | 71.2 | 78.7 | 84.0 | 87.5 | 89.8 | 91.2 | 91.2 | 91.7 | 92.0 | 92.0 | 92.1 | 92.1 | 92.1 | 92.3  |
| ≥ 1500          | 36.7                       | 62.3 | 71.5 | 79.0 | 84.4 | 87.9 | 90.3 | 91.7 | 91.7 | 92.3 | 92.5 | 92.5 | 92.7 | 92.7 | 92.7 | 92.8  |
| ≥ 1200          | 36.9                       | 62.6 | 70.9 | 79.7 | 85.0 | 88.7 | 91.1 | 92.7 | 92.7 | 93.2 | 93.4 | 93.4 | 93.6 | 93.6 | 93.6 | 93.7  |
| ≥ 1000          | 37.0                       | 62.9 | 71.4 | 80.2 | 85.7 | 89.5 | 92.0 | 93.7 | 93.8 | 94.4 | 94.6 | 94.6 | 94.8 | 94.8 | 94.8 | 94.9  |
| ≥ 900           | 37.0                       | 62.9 | 71.5 | 80.3 | 85.8 | 89.6 | 92.1 | 93.8 | 94.0 | 94.5 | 94.8 | 94.8 | 94.9 | 94.9 | 94.9 | 95.0  |
| ≥ 800           | 37.0                       | 63.0 | 71.8 | 80.6 | 86.2 | 90.0 | 92.5 | 94.2 | 94.4 | 95.1 | 95.4 | 95.4 | 95.5 | 95.5 | 95.5 | 95.7  |
| ≥ 700           | 37.0                       | 63.0 | 71.8 | 80.6 | 86.4 | 90.2 | 92.8 | 94.5 | 94.6 | 95.5 | 95.8 | 95.8 | 95.9 | 95.9 | 95.9 | 96.1  |
| ≥ 600           | 37.0                       | 63.0 | 71.8 | 80.6 | 86.4 | 90.2 | 92.8 | 94.5 | 94.6 | 95.5 | 95.8 | 95.8 | 95.9 | 95.9 | 95.9 | 96.1  |
| ≥ 500           | 37.0                       | 63.0 | 71.8 | 80.8 | 86.6 | 90.6 | 93.2 | 95.1 | 95.3 | 96.2 | 96.7 | 96.7 | 96.9 | 96.9 | 96.9 | 97.0  |
| ≥ 400           | 37.0                       | 63.4 | 72.2 | 81.5 | 87.5 | 91.6 | 94.5 | 96.7 | 96.9 | 97.9 | 98.4 | 98.4 | 98.6 | 98.6 | 98.6 | 98.7  |
| ≥ 300           | 37.0                       | 63.4 | 72.2 | 81.5 | 87.5 | 91.6 | 94.5 | 97.0 | 97.1 | 98.2 | 98.7 | 98.7 | 98.8 | 98.8 | 98.8 | 99.0  |
| ≥ 200           | 37.0                       | 63.4 | 72.2 | 81.5 | 87.5 | 91.9 | 94.9 | 97.4 | 97.5 | 98.7 | 99.2 | 99.2 | 99.3 | 99.3 | 99.3 | 99.5  |
| ≥ 100           | 37.0                       | 63.4 | 72.2 | 81.5 | 87.5 | 91.9 | 95.0 | 97.5 | 97.6 | 99.1 | 99.6 | 99.6 | 99.7 | 99.7 | 99.7 | 99.9  |
| ≥ 0             | 37.0                       | 63.4 | 72.2 | 81.5 | 87.5 | 91.9 | 95.0 | 97.5 | 97.6 | 99.1 | 99.6 | 99.6 | 99.7 | 99.7 | 99.7 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 762



FEDERAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 250 YOUNGSTOWN MAP OH  
STATION NAME

73-61  
YEARS

AUG  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1-24

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |      |      |       |      |       |        |       |       |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|------|------|-------|------|-------|--------|-------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1  | ≥ .5 | ≥ .25 | ≥ .1 | ≥ .05 | ≥ .025 | ≥ .01 | ≥ 0   |
| NO CEILING      | 19.2                       | 28.8 | 31.7 | 35.3 | 37.3 | 39.7  | 42.0 | 42.7  | 42.7 | 43.4 | 43.5  | 43.5 | 43.6  | 43.7   | 43.8  | 43.9  |
| ≥ 20000         | 21.2                       | 33.9 | 37.5 | 41.4 | 43.9 | 46.8  | 49.5 | 50.6  | 50.6 | 51.3 | 51.5  | 51.5 | 51.6  | 51.6   | 51.8  | 51.9  |
| ≥ 18000         | 21.0                       | 34.0 | 37.6 | 41.6 | 44.1 | 47.0  | 49.7 | 50.8  | 50.8 | 51.5 | 51.7  | 51.7 | 51.8  | 51.8   | 52.0  | 52.1  |
| ≥ 16000         | 21.3                       | 34.7 | 37.6 | 41.6 | 44.1 | 47.0  | 49.7 | 50.8  | 50.8 | 51.5 | 51.7  | 51.7 | 51.8  | 51.8   | 52.0  | 52.1  |
| ≥ 14000         | 22.1                       | 34.3 | 37.9 | 41.9 | 44.4 | 47.4  | 50.2 | 51.2  | 51.2 | 51.9 | 52.1  | 52.1 | 52.2  | 52.2   | 52.4  | 52.5  |
| ≥ 12000         | 22.9                       | 35.7 | 39.6 | 43.7 | 46.3 | 49.3  | 52.0 | 53.2  | 53.2 | 53.9 | 54.1  | 54.1 | 54.3  | 54.3   | 54.4  | 54.6  |
| ≥ 10000         | 24.1                       | 38.5 | 42.7 | 47.1 | 50.1 | 53.4  | 56.3 | 57.6  | 57.6 | 58.3 | 58.5  | 58.5 | 58.7  | 58.7   | 58.8  | 59.0  |
| ≥ 9000          | 24.1                       | 38.8 | 43.1 | 47.4 | 50.4 | 53.7  | 56.7 | 57.9  | 57.9 | 58.7 | 58.9  | 58.9 | 59.0  | 59.1   | 59.2  | 59.4  |
| ≥ 8000          | 24.6                       | 39.8 | 44.2 | 48.8 | 51.9 | 55.3  | 58.4 | 59.7  | 59.7 | 60.5 | 60.6  | 60.6 | 60.8  | 60.8   | 61.0  | 61.1  |
| ≥ 7000          | 25.0                       | 40.4 | 44.8 | 49.7 | 52.8 | 56.3  | 59.4 | 60.7  | 60.7 | 61.5 | 61.7  | 61.7 | 61.9  | 61.9   | 62.1  | 62.2  |
| ≥ 6000          | 25.2                       | 40.7 | 45.3 | 50.2 | 53.4 | 57.0  | 60.2 | 61.6  | 61.6 | 62.5 | 62.7  | 62.7 | 62.8  | 62.8   | 63.0  | 63.1  |
| ≥ 5000          | 25.7                       | 42.3 | 47.1 | 52.4 | 55.8 | 59.7  | 63.1 | 64.6  | 64.6 | 65.5 | 65.7  | 65.7 | 65.8  | 65.8   | 66.0  | 66.1  |
| ≥ 4500          | 26.7                       | 43.5 | 48.6 | 54.0 | 57.5 | 61.6  | 65.1 | 66.6  | 66.6 | 67.5 | 67.7  | 67.7 | 67.9  | 67.9   | 68.1  | 68.2  |
| ≥ 4000          | 28.2                       | 46.0 | 51.4 | 57.1 | 61.1 | 65.4  | 69.1 | 70.8  | 70.8 | 71.7 | 71.9  | 71.9 | 72.0  | 72.1   | 72.2  | 72.4  |
| ≥ 3500          | 29.1                       | 47.5 | 53.1 | 59.1 | 63.2 | 67.8  | 71.7 | 73.4  | 73.5 | 74.4 | 74.6  | 74.6 | 74.7  | 74.7   | 74.9  | 75.0  |
| ≥ 3000          | 29.8                       | 49.2 | 55.3 | 61.6 | 65.9 | 70.7  | 74.8 | 76.7  | 76.7 | 77.6 | 77.8  | 77.8 | 78.0  | 78.0   | 78.2  | 78.4  |
| ≥ 2500          | 30.6                       | 51.0 | 57.6 | 64.3 | 69.1 | 74.4  | 78.7 | 80.6  | 80.7 | 81.6 | 81.8  | 81.8 | 82.0  | 82.0   | 82.2  | 82.3  |
| ≥ 2000          | 31.2                       | 52.2 | 59.1 | 66.1 | 71.2 | 76.8  | 81.2 | 83.3  | 83.3 | 84.2 | 84.5  | 84.5 | 84.7  | 84.7   | 84.9  | 85.0  |
| ≥ 1800          | 31.2                       | 52.6 | 59.7 | 66.9 | 72.0 | 77.8  | 82.2 | 84.4  | 84.5 | 85.4 | 85.6  | 85.6 | 85.8  | 85.8   | 86.0  | 86.1  |
| ≥ 1500          | 31.4                       | 53.3 | 60.5 | 67.8 | 73.2 | 79.1  | 83.7 | 86.0  | 86.1 | 87.0 | 87.3  | 87.3 | 87.5  | 87.5   | 87.7  | 87.8  |
| ≥ 1200          | 31.6                       | 53.9 | 61.2 | 68.9 | 74.4 | 80.5  | 85.2 | 87.7  | 87.8 | 88.8 | 89.1  | 89.1 | 89.2  | 89.3   | 89.5  | 89.6  |
| ≥ 1000          | 31.7                       | 54.2 | 61.6 | 69.5 | 75.0 | 81.3  | 86.2 | 88.8  | 88.9 | 90.0 | 90.3  | 90.3 | 90.4  | 90.5   | 90.7  | 90.8  |
| ≥ 900           | 31.9                       | 54.4 | 61.9 | 69.7 | 75.3 | 81.7  | 86.6 | 89.4  | 89.5 | 90.6 | 90.9  | 90.9 | 91.1  | 91.1   | 91.3  | 91.5  |
| ≥ 800           | 31.3                       | 54.5 | 62.1 | 70.0 | 75.6 | 82.1  | 87.2 | 90.0  | 90.0 | 91.3 | 91.6  | 91.6 | 91.8  | 91.8   | 92.1  | 92.2  |
| ≥ 700           | 31.9                       | 54.7 | 62.2 | 70.3 | 76.0 | 82.7  | 87.9 | 90.8  | 90.9 | 92.1 | 92.5  | 92.5 | 92.7  | 92.7   | 93.0  | 93.1  |
| ≥ 600           | 31.9                       | 54.9 | 62.6 | 70.7 | 76.5 | 83.2  | 88.6 | 91.6  | 91.7 | 93.0 | 93.4  | 93.4 | 93.6  | 93.6   | 93.9  | 94.0  |
| ≥ 500           | 31.9                       | 55.0 | 62.8 | 71.0 | 76.8 | 83.7  | 89.4 | 92.7  | 92.8 | 94.2 | 94.6  | 94.6 | 94.9  | 94.9   | 95.1  | 95.3  |
| ≥ 400           | 31.9                       | 55.1 | 63.2 | 71.4 | 77.2 | 84.2  | 90.2 | 93.8  | 93.9 | 95.5 | 96.0  | 96.0 | 96.2  | 96.3   | 96.5  | 96.6  |
| ≥ 300           | 31.9                       | 55.1 | 63.0 | 71.5 | 77.4 | 84.4  | 90.6 | 94.5  | 94.6 | 96.4 | 96.9  | 96.9 | 97.2  | 97.2   | 97.5  | 97.6  |
| ≥ 200           | 31.9                       | 55.1 | 63.0 | 71.5 | 77.4 | 84.4  | 90.8 | 94.8  | 94.9 | 96.9 | 97.6  | 97.6 | 98.0  | 98.0   | 98.4  | 98.5  |
| ≥ 100           | 31.9                       | 55.1 | 63.0 | 71.5 | 77.4 | 84.5  | 90.9 | 94.9  | 95.0 | 97.2 | 98.0  | 98.0 | 98.4  | 98.5   | 98.8  | 99.2  |
| ≥ 0             | 31.9                       | 55.1 | 63.0 | 71.5 | 77.4 | 84.5  | 90.9 | 94.9  | 95.1 | 97.2 | 98.0  | 98.0 | 98.5  | 98.6   | 99.0  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 632

REGIONAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION: YOUNGSTOWN MAP OH

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1000-0200  
1000-1100

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |       |      |      |      |       |      |       |       |
|-----------------|--------------------------|------|------|------|------|-------|------|-------|-------|------|------|------|-------|------|-------|-------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .4 | ≥ .3 | ≥ .25 | ≥ .2 | ≥ .15 | ≥ 0   |
| NO CEILING      | 52.3                     | 44.4 | 46.5 | 48.6 | 49.8 | 50.9  | 52.3 | 52.3  | 52.3  | 52.3 | 52.4 | 52.4 | 52.7  | 52.7 | 52.7  | 52.8  |
| ≥ 20000         | 33.7                     | 46.4 | 49.5 | 51.9 | 53.4 | 54.4  | 55.9 | 55.9  | 55.9  | 55.9 | 56.0 | 56.3 | 56.3  | 56.3 | 56.3  | 56.4  |
| ≥ 18000         | 34.7                     | 46.6 | 49.8 | 52.2 | 53.6 | 54.7  | 56.1 | 56.1  | 56.1  | 56.1 | 56.3 | 56.3 | 56.5  | 56.5 | 56.5  | 56.7  |
| ≥ 16000         | 34.7                     | 46.6 | 49.8 | 52.2 | 53.6 | 54.7  | 56.1 | 56.1  | 56.1  | 56.1 | 56.3 | 56.3 | 56.5  | 56.5 | 56.5  | 56.7  |
| ≥ 14000         | 34.3                     | 46.9 | 51.1 | 52.4 | 53.9 | 54.9  | 56.4 | 56.4  | 56.4  | 56.4 | 56.5 | 56.5 | 56.8  | 56.8 | 56.8  | 56.9  |
| ≥ 12000         | 35.2                     | 47.8 | 51.1 | 53.4 | 54.8 | 55.9  | 57.3 | 57.3  | 57.3  | 57.3 | 57.4 | 57.4 | 57.7  | 57.7 | 57.7  | 57.8  |
| ≥ 10000         | 36.7                     | 51.5 | 54.5 | 57.4 | 58.9 | 59.9  | 61.4 | 61.4  | 61.4  | 61.4 | 61.5 | 61.5 | 61.8  | 61.8 | 61.8  | 61.9  |
| ≥ 9000          | 36.7                     | 52.0 | 55.3 | 58.0 | 59.4 | 60.5  | 61.9 | 61.9  | 61.9  | 61.9 | 62.1 | 62.1 | 62.3  | 62.3 | 62.3  | 62.5  |
| ≥ 8000          | 39.5                     | 54.3 | 57.6 | 60.2 | 61.8 | 62.8  | 64.3 | 64.3  | 64.3  | 64.3 | 64.4 | 64.4 | 64.7  | 64.7 | 64.7  | 64.8  |
| ≥ 7000          | 40.1                     | 55.7 | 59.0 | 61.9 | 63.5 | 64.6  | 66.0 | 66.0  | 66.0  | 66.0 | 66.1 | 66.1 | 66.4  | 66.4 | 66.4  | 66.5  |
| ≥ 6000          | 41.1                     | 55.7 | 59.0 | 61.9 | 63.6 | 64.7  | 66.1 | 66.1  | 66.1  | 66.1 | 66.3 | 66.3 | 66.5  | 66.5 | 66.5  | 66.7  |
| ≥ 5000          | 41.7                     | 57.6 | 61.3 | 64.6 | 66.3 | 67.3  | 68.9 | 68.9  | 68.9  | 68.9 | 69.0 | 69.0 | 69.3  | 69.3 | 69.3  | 69.4  |
| ≥ 4500          | 41.4                     | 59.4 | 63.6 | 67.2 | 69.9 | 71.0  | 71.5 | 71.5  | 71.5  | 71.5 | 71.7 | 71.7 | 71.9  | 71.9 | 71.9  | 72.1  |
| ≥ 4000          | 44.4                     | 63.5 | 67.7 | 71.5 | 73.3 | 74.3  | 76.0 | 76.0  | 76.0  | 76.0 | 76.2 | 76.2 | 76.4  | 76.4 | 76.4  | 76.5  |
| ≥ 3500          | 45.1                     | 65.0 | 70.1 | 74.2 | 76.3 | 77.5  | 79.2 | 79.2  | 79.2  | 79.2 | 79.3 | 79.3 | 79.6  | 79.6 | 79.6  | 79.7  |
| ≥ 3000          | 46.4                     | 66.9 | 72.2 | 76.3 | 78.4 | 79.6  | 81.3 | 81.3  | 81.3  | 81.3 | 81.4 | 81.4 | 81.7  | 81.7 | 81.7  | 81.8  |
| ≥ 2500          | 46.3                     | 67.9 | 73.4 | 77.5 | 79.8 | 81.0  | 82.7 | 82.7  | 82.7  | 82.9 | 83.0 | 83.0 | 83.3  | 83.3 | 83.3  | 83.4  |
| ≥ 2000          | 47.0                     | 68.4 | 74.0 | 78.7 | 81.0 | 82.3  | 84.2 | 84.6  | 84.6  | 84.8 | 85.0 | 85.0 | 85.2  | 85.2 | 85.2  | 85.4  |
| ≥ 1800          | 47.2                     | 68.8 | 74.4 | 79.2 | 81.6 | 82.9  | 84.7 | 85.2  | 85.2  | 85.5 | 85.6 | 85.6 | 85.9  | 85.9 | 85.9  | 86.0  |
| ≥ 1500          | 47.8                     | 69.4 | 75.1 | 80.1 | 82.5 | 83.8  | 85.6 | 86.2  | 86.2  | 86.6 | 86.7 | 86.7 | 87.0  | 87.0 | 87.0  | 87.1  |
| ≥ 1200          | 47.8                     | 70.1 | 75.9 | 81.4 | 84.1 | 85.4  | 87.4 | 88.0  | 88.0  | 88.4 | 88.5 | 88.5 | 88.8  | 88.8 | 88.8  | 88.9  |
| ≥ 1000          | 48.1                     | 70.8 | 76.5 | 82.1 | 84.7 | 86.2  | 88.1 | 88.8  | 88.8  | 89.2 | 89.3 | 89.3 | 89.6  | 89.6 | 89.6  | 89.7  |
| ≥ 900           | 48.5                     | 71.4 | 77.2 | 82.7 | 85.4 | 86.8  | 88.8 | 89.5  | 89.5  | 90.0 | 90.1 | 90.1 | 90.4  | 90.4 | 90.4  | 90.5  |
| ≥ 800           | 48.5                     | 71.9 | 77.9 | 83.5 | 86.2 | 87.6  | 89.6 | 90.3  | 90.3  | 90.8 | 90.9 | 90.9 | 91.2  | 91.2 | 91.2  | 91.3  |
| ≥ 700           | 48.5                     | 72.1 | 78.1 | 83.7 | 86.3 | 87.7  | 89.7 | 90.4  | 90.4  | 90.9 | 91.0 | 91.0 | 91.3  | 91.3 | 91.3  | 91.4  |
| ≥ 600           | 48.5                     | 72.2 | 78.5 | 84.3 | 87.1 | 88.5  | 90.6 | 91.3  | 91.3  | 92.0 | 92.1 | 92.1 | 92.4  | 92.4 | 92.4  | 92.5  |
| ≥ 500           | 48.5                     | 73.0 | 79.3 | 85.5 | 88.3 | 89.1  | 92.2 | 92.9  | 92.9  | 93.5 | 93.7 | 93.7 | 94.3  | 94.3 | 94.3  | 94.5  |
| ≥ 400           | 48.5                     | 73.0 | 79.6 | 85.9 | 88.9 | 90.9  | 93.0 | 93.7  | 93.7  | 94.6 | 94.7 | 94.7 | 95.4  | 95.4 | 95.4  | 95.5  |
| ≥ 300           | 48.5                     | 73.1 | 80.0 | 87.0 | 90.5 | 92.6  | 95.3 | 96.2  | 96.2  | 97.2 | 97.4 | 97.4 | 98.2  | 98.2 | 98.2  | 98.4  |
| ≥ 200           | 48.5                     | 73.1 | 80.0 | 87.0 | 90.5 | 92.6  | 95.3 | 96.2  | 96.2  | 97.4 | 97.5 | 97.5 | 98.4  | 98.4 | 98.7  | 98.9  |
| ≥ 100           | 48.5                     | 73.1 | 80.0 | 87.0 | 90.5 | 92.6  | 95.3 | 96.2  | 96.2  | 97.4 | 97.5 | 97.5 | 98.4  | 98.7 | 98.9  | 99.2  |
| ≥ 0             | 48.5                     | 73.1 | 80.0 | 87.0 | 90.5 | 92.6  | 95.3 | 96.2  | 96.2  | 97.4 | 97.5 | 97.5 | 98.6  | 98.8 | 99.2  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS: 759

1. METEOROLOGICAL CLIMATOLOGY BRANCH  
2. USAF ETAC  
3. WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

3300-5500  
FOOT

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1    |
| NO CEILING      | 24.7                     | 35.3 | 38.4 | 41.5 | 44.3 | 45.2 | 47.3 | 47.7 | 47.7 | 47.7 | 47.7 | 47.8 | 47.8 | 48.4 | 48.4 | 49.6  |
| ≥ 20000         | 25.3                     | 37.6 | 41.1 | 44.7 | 47.7 | 48.6 | 50.9 | 51.2 | 51.2 | 51.4 | 51.5 | 51.5 | 52.0 | 52.0 | 52.3 | 52.7  |
| IN 18000        | 26.4                     | 37.7 | 41.3 | 44.8 | 47.8 | 48.8 | 51.0 | 51.4 | 51.4 | 51.5 | 51.6 | 51.6 | 52.2 | 52.2 | 52.4 | 52.8  |
| IN 16000        | 26.4                     | 37.7 | 41.3 | 44.8 | 47.8 | 48.8 | 51.0 | 51.4 | 51.4 | 51.5 | 51.6 | 51.6 | 52.2 | 52.2 | 52.4 | 52.8  |
| IN 14000        | 26.5                     | 37.8 | 41.4 | 44.9 | 48.0 | 48.9 | 51.1 | 51.5 | 51.5 | 51.6 | 51.8 | 51.8 | 52.3 | 52.3 | 52.6 | 53.0  |
| IN 12000        | 26.4                     | 38.1 | 41.7 | 45.2 | 48.2 | 49.1 | 51.4 | 51.8 | 51.8 | 51.9 | 52.1 | 52.0 | 52.6 | 52.6 | 52.8 | 53.2  |
| IN 10000        | 29.7                     | 42.4 | 46.5 | 50.1 | 53.4 | 54.3 | 56.5 | 56.9 | 56.9 | 57.0 | 57.2 | 57.2 | 57.7 | 57.7 | 58.0 | 58.3  |
| IN 9000         | 30.0                     | 42.8 | 47.0 | 50.6 | 53.9 | 54.8 | 57.0 | 57.4 | 57.4 | 57.6 | 57.7 | 57.7 | 58.2 | 58.2 | 58.5 | 58.9  |
| IN 8000         | 30.9                     | 44.5 | 49.1 | 52.7 | 56.1 | 57.0 | 59.3 | 59.7 | 59.7 | 59.8 | 59.9 | 59.9 | 60.4 | 60.4 | 60.7 | 61.1  |
| IN 7000         | 31.3                     | 45.3 | 49.9 | 53.5 | 56.9 | 58.0 | 60.2 | 60.6 | 60.6 | 60.7 | 60.8 | 60.8 | 61.4 | 61.4 | 61.6 | 62.0  |
| IN 6000         | 31.7                     | 46.1 | 50.7 | 54.3 | 57.7 | 58.7 | 61.0 | 61.4 | 61.4 | 61.5 | 61.6 | 61.6 | 62.2 | 62.2 | 62.4 | 62.8  |
| IN 5000         | 33.9                     | 48.8 | 53.6 | 57.4 | 61.0 | 62.0 | 64.3 | 64.9 | 64.9 | 65.0 | 65.2 | 65.2 | 65.7 | 65.7 | 66.0 | 66.4  |
| IN 4500         | 34.8                     | 51.2 | 55.3 | 59.3 | 62.9 | 64.0 | 66.4 | 67.0 | 67.0 | 67.1 | 67.3 | 67.3 | 67.8 | 67.8 | 68.1 | 68.5  |
| IN 4000         | 35.7                     | 52.7 | 57.8 | 61.9 | 65.7 | 66.9 | 69.4 | 70.0 | 70.0 | 70.2 | 70.3 | 70.3 | 70.8 | 70.8 | 71.1 | 71.5  |
| IN 3500         | 36.4                     | 54.8 | 61.4 | 64.5 | 68.7 | 69.9 | 72.4 | 73.3 | 73.3 | 73.5 | 73.6 | 73.6 | 74.1 | 74.1 | 74.4 | 74.8  |
| IN 3000         | 38.1                     | 57.7 | 63.6 | 67.7 | 72.0 | 73.2 | 75.7 | 76.6 | 76.6 | 76.9 | 77.0 | 77.0 | 77.5 | 77.5 | 77.8 | 78.2  |
| IN 2500         | 38.9                     | 59.8 | 66.0 | 70.4 | 75.2 | 76.3 | 78.8 | 79.8 | 79.8 | 80.0 | 80.2 | 80.2 | 80.7 | 80.7 | 80.9 | 81.3  |
| IN 2000         | 39.4                     | 60.7 | 67.3 | 71.9 | 76.7 | 77.9 | 80.6 | 81.6 | 81.6 | 81.9 | 82.0 | 82.0 | 82.5 | 82.5 | 82.8 | 83.2  |
| IN 1800         | 39.6                     | 61.0 | 67.5 | 72.1 | 77.0 | 78.2 | 80.8 | 81.9 | 81.9 | 82.1 | 82.3 | 82.3 | 82.8 | 82.8 | 83.7 | 83.4  |
| IN 1500         | 39.5                     | 61.5 | 68.1 | 72.9 | 77.8 | 79.0 | 81.6 | 82.7 | 82.7 | 82.9 | 83.0 | 83.0 | 83.6 | 83.6 | 83.8 | 84.2  |
| IN 1200         | 39.9                     | 62.4 | 69.3 | 74.4 | 79.4 | 80.8 | 83.4 | 84.8 | 84.8 | 85.0 | 85.2 | 85.2 | 85.7 | 85.7 | 85.9 | 86.3  |
| IN 1000         | 40.1                     | 63.6 | 71.7 | 75.8 | 81.1 | 82.8 | 85.4 | 86.7 | 86.7 | 87.0 | 87.1 | 87.1 | 87.6 | 87.6 | 87.9 | 88.3  |
| IN 900          | 40.5                     | 64.1 | 71.2 | 76.3 | 81.6 | 83.3 | 86.1 | 87.4 | 87.4 | 87.6 | 87.8 | 87.8 | 88.3 | 88.3 | 88.6 | 89.0  |
| IN 800          | 41.5                     | 64.3 | 71.5 | 76.6 | 81.9 | 83.6 | 86.3 | 87.8 | 87.8 | 88.4 | 88.6 | 88.6 | 89.1 | 89.1 | 89.4 | 89.8  |
| IN 700          | 40.6                     | 64.5 | 71.9 | 77.4 | 82.9 | 84.6 | 87.8 | 89.2 | 89.2 | 89.9 | 90.0 | 90.0 | 90.5 | 90.5 | 90.8 | 91.2  |
| IN 600          | 40.6                     | 64.5 | 72.1 | 77.8 | 83.3 | 85.2 | 88.4 | 89.9 | 89.9 | 90.5 | 90.7 | 90.7 | 91.2 | 91.2 | 91.5 | 91.9  |
| IN 500          | 40.6                     | 64.8 | 72.7 | 79.1 | 85.3 | 87.1 | 90.5 | 92.2 | 92.2 | 92.9 | 93.0 | 93.0 | 93.6 | 93.6 | 93.8 | 94.2  |
| IN 400          | 40.6                     | 64.8 | 72.7 | 79.1 | 85.5 | 87.9 | 91.7 | 93.6 | 93.6 | 94.3 | 94.5 | 94.6 | 95.1 | 95.1 | 95.5 | 95.9  |
| IN 300          | 40.6                     | 64.8 | 72.8 | 79.2 | 85.7 | 88.4 | 92.9 | 94.7 | 94.7 | 95.5 | 95.7 | 95.8 | 96.3 | 96.3 | 96.7 | 97.1  |
| IN 200          | 40.6                     | 64.8 | 72.8 | 79.4 | 85.9 | 88.7 | 93.3 | 95.4 | 95.4 | 96.3 | 96.5 | 96.6 | 97.2 | 97.2 | 97.8 | 98.2  |
| IN 100          | 40.6                     | 64.8 | 72.8 | 79.4 | 85.9 | 88.7 | 93.3 | 95.5 | 95.5 | 96.6 | 97.0 | 97.1 | 97.9 | 97.9 | 98.4 | 98.8  |
| IN 0            | 40.6                     | 64.8 | 72.8 | 79.4 | 85.9 | 88.7 | 93.3 | 95.5 | 95.5 | 96.6 | 97.0 | 97.1 | 97.9 | 97.9 | 98.4 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 761

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

7600-6600

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.75 | ≥.5  | ≥.25 | ≥.16 | ≥.1  | ≥0    |
| NO CEILING      | 14.9                     | 25.2 | 28.2 | 30.9 | 32.5 | 34.8 | 39.3 | 40.6 | 40.6 | 41.7 | 42.6 | 42.6 | 42.9 | 43.1 | 43.2 | 43.3  |
| ≥ 20000         | 21.2                     | 27.7 | 31.7 | 34.0 | 35.9 | 38.2 | 43.2 | 44.8 | 44.8 | 46.0 | 46.9 | 46.9 | 47.2 | 47.4 | 47.5 | 47.6  |
| ≥ 18000         | 21.2                     | 27.7 | 31.7 | 34.0 | 35.9 | 38.2 | 43.2 | 45.0 | 45.0 | 46.1 | 47.0 | 47.0 | 47.4 | 47.5 | 47.6 | 47.7  |
| ≥ 16000         | 21.2                     | 27.7 | 31.7 | 34.0 | 35.9 | 38.2 | 43.2 | 45.0 | 45.0 | 46.1 | 47.0 | 47.0 | 47.4 | 47.5 | 47.6 | 47.7  |
| ≥ 14000         | 20.5                     | 28.2 | 31.5 | 34.6 | 36.6 | 39.3 | 44.1 | 45.8 | 45.8 | 47.0 | 47.9 | 47.9 | 48.2 | 48.4 | 48.5 | 48.6  |
| ≥ 12000         | 20.5                     | 28.5 | 31.7 | 35.0 | 37.0 | 39.4 | 44.5 | 46.3 | 46.3 | 47.5 | 48.4 | 48.4 | 48.7 | 48.9 | 49.0 | 49.1  |
| ≥ 10000         | 22.2                     | 31.7 | 35.4 | 38.9 | 41.1 | 43.6 | 49.0 | 51.0 | 51.0 | 52.1 | 53.0 | 53.0 | 53.4 | 53.5 | 53.7 | 53.8  |
| ≥ 9000          | 23.3                     | 32.4 | 36.0 | 39.5 | 41.8 | 44.3 | 49.7 | 51.8 | 51.8 | 52.9 | 53.8 | 53.8 | 54.2 | 54.3 | 54.4 | 54.5  |
| ≥ 8000          | 23.2                     | 34.6 | 38.8 | 42.6 | 45.2 | 47.9 | 53.5 | 55.5 | 55.5 | 56.7 | 57.6 | 57.6 | 57.9 | 58.1 | 58.2 | 58.3  |
| ≥ 7000          | 24.3                     | 35.3 | 39.3 | 43.1 | 45.8 | 48.5 | 54.3 | 56.3 | 56.3 | 57.4 | 58.3 | 58.3 | 58.7 | 58.8 | 58.9 | 59.1  |
| ≥ 6000          | 24.8                     | 35.9 | 39.9 | 43.7 | 46.5 | 49.2 | 55.0 | 57.2 | 57.2 | 58.3 | 59.2 | 59.2 | 59.6 | 59.7 | 59.8 | 59.9  |
| ≥ 5000          | 25.1                     | 37.7 | 41.7 | 45.7 | 48.5 | 51.4 | 57.4 | 59.6 | 59.6 | 60.8 | 61.8 | 61.8 | 62.2 | 62.3 | 62.5 | 62.6  |
| ≥ 4500          | 26.8                     | 38.7 | 42.8 | 46.9 | 49.7 | 52.8 | 58.8 | 61.1 | 61.1 | 62.3 | 63.4 | 63.4 | 63.9 | 64.0 | 64.1 | 64.2  |
| ≥ 4000          | 27.8                     | 39.9 | 44.5 | 48.5 | 51.9 | 55.7 | 61.2 | 63.6 | 63.6 | 64.9 | 65.9 | 65.9 | 66.5 | 66.6 | 66.8 | 66.9  |
| ≥ 3500          | 28.5                     | 40.9 | 45.6 | 49.7 | 53.3 | 56.5 | 62.7 | 65.2 | 65.4 | 66.8 | 67.9 | 67.9 | 68.5 | 68.6 | 68.8 | 68.9  |
| ≥ 3000          | 29.5                     | 42.8 | 47.7 | 52.0 | 55.7 | 58.9 | 65.4 | 68.0 | 68.1 | 69.8 | 71.0 | 71.0 | 71.7 | 71.8 | 71.9 | 72.0  |
| ≥ 2500          | 29.7                     | 43.5 | 48.5 | 53.1 | 56.9 | 60.5 | 67.5 | 70.2 | 70.3 | 72.0 | 73.3 | 73.3 | 73.9 | 74.1 | 74.2 | 74.3  |
| ≥ 2000          | 30.7                     | 45.7 | 51.0 | 55.9 | 59.7 | 63.6 | 70.9 | 73.6 | 73.7 | 75.6 | 76.8 | 76.8 | 77.5 | 77.6 | 77.7 | 77.8  |
| ≥ 1800          | 31.7                     | 46.2 | 51.5 | 56.5 | 60.3 | 64.2 | 71.5 | 74.2 | 74.3 | 76.2 | 77.5 | 77.5 | 78.1 | 78.2 | 78.3 | 78.5  |
| ≥ 1500          | 31.2                     | 46.5 | 51.9 | 57.1 | 60.8 | 64.7 | 72.3 | 74.9 | 75.1 | 77.0 | 78.2 | 78.2 | 78.8 | 79.0 | 79.1 | 79.2  |
| ≥ 1200          | 32.2                     | 47.7 | 53.1 | 58.3 | 62.2 | 66.2 | 74.1 | 76.7 | 76.8 | 78.7 | 80.0 | 80.0 | 80.6 | 80.7 | 80.9 | 81.0  |
| ≥ 1000          | 32.2                     | 48.2 | 53.7 | 59.1 | 63.5 | 67.6 | 75.4 | 78.2 | 78.5 | 80.4 | 81.6 | 81.6 | 82.2 | 82.4 | 82.5 | 82.6  |
| ≥ 900           | 32.4                     | 48.4 | 53.9 | 59.3 | 63.7 | 67.9 | 75.9 | 78.8 | 79.1 | 81.1 | 82.4 | 82.4 | 83.0 | 83.1 | 83.2 | 83.4  |
| ≥ 800           | 32.4                     | 48.7 | 54.4 | 59.8 | 64.2 | 68.6 | 77.0 | 80.1 | 80.4 | 82.4 | 83.6 | 83.6 | 84.3 | 84.4 | 84.5 | 84.6  |
| ≥ 700           | 32.5                     | 49.1 | 54.8 | 60.3 | 64.9 | 69.4 | 77.7 | 80.9 | 81.1 | 83.2 | 84.5 | 84.5 | 85.1 | 85.3 | 85.4 | 85.5  |
| ≥ 600           | 32.5                     | 49.4 | 55.3 | 61.1 | 65.6 | 70.4 | 78.7 | 81.9 | 82.1 | 84.3 | 85.5 | 85.5 | 86.1 | 86.3 | 86.4 | 86.5  |
| ≥ 500           | 32.5                     | 49.5 | 55.7 | 61.5 | 66.5 | 71.4 | 80.6 | 84.1 | 84.5 | 86.9 | 88.9 | 88.9 | 89.5 | 89.7 | 89.8 | 89.9  |
| ≥ 400           | 32.5                     | 49.9 | 56.3 | 62.3 | 67.5 | 72.8 | 83.0 | 86.9 | 87.3 | 90.4 | 93.1 | 93.1 | 93.7 | 93.8 | 94.0 | 94.1  |
| ≥ 300           | 32.5                     | 49.9 | 56.3 | 62.3 | 67.5 | 72.8 | 83.1 | 87.7 | 88.0 | 91.7 | 94.8 | 95.0 | 95.7 | 95.8 | 96.0 | 96.1  |
| ≥ 200           | 32.5                     | 49.9 | 56.3 | 62.3 | 67.5 | 72.8 | 83.2 | 88.0 | 88.4 | 92.1 | 95.6 | 95.7 | 96.7 | 96.9 | 97.4 | 97.5  |
| ≥ 100           | 32.5                     | 51.0 | 56.4 | 62.5 | 67.6 | 72.9 | 83.4 | 88.2 | 88.5 | 92.4 | 96.1 | 96.2 | 97.2 | 97.4 | 98.1 | 98.5  |
| ≥ 0             | 32.5                     | 50.0 | 56.4 | 62.5 | 67.6 | 72.9 | 83.4 | 88.2 | 88.5 | 92.4 | 96.1 | 96.2 | 97.2 | 97.4 | 98.1 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 794

CLIMATE CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

SEP  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1930-1980  
HOURS (5)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |       |      |      |      |      |       |      |       |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|------|------|------|-------|------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .5 | ≥ .4 | ≥ .3 | ≥ .25 | ≥ .2 | ≥ 0   |
| NO CEILING      | 18.9                       | 27.2 | 29.3 | 31.2 | 33.6 | 36.5  | 37.7 | 37.8  | 37.8  | 37.9 | 37.9 | 37.9 | 37.9 | 37.9  | 37.9 | 37.9  |
| ≥ 20000         | 12.2                       | 32.1 | 34.8 | 36.9 | 39.3 | 42.8  | 44.3 | 44.5  | 44.5  | 44.7 | 44.7 | 44.7 | 44.7 | 44.7  | 44.7 | 44.7  |
| ≥ 18000         | 12.2                       | 32.1 | 34.8 | 36.9 | 39.5 | 42.9  | 44.4 | 44.7  | 44.7  | 44.8 | 44.8 | 44.8 | 44.8 | 44.8  | 44.8 | 44.8  |
| ≥ 16000         | 12.2                       | 32.1 | 34.8 | 36.9 | 39.5 | 42.9  | 44.4 | 44.7  | 44.7  | 44.8 | 44.8 | 44.8 | 44.8 | 44.8  | 44.8 | 44.8  |
| ≥ 14000         | 22.5                       | 32.6 | 35.3 | 37.7 | 40.4 | 43.8  | 45.3 | 45.6  | 45.6  | 45.7 | 45.7 | 45.7 | 45.7 | 45.7  | 45.7 | 45.7  |
| ≥ 12000         | 23.2                       | 33.5 | 36.2 | 38.7 | 41.4 | 44.8  | 46.3 | 46.6  | 46.6  | 46.7 | 46.7 | 46.7 | 46.7 | 46.7  | 46.7 | 46.7  |
| ≥ 10000         | 25.5                       | 37.7 | 40.6 | 43.3 | 46.3 | 49.9  | 51.5 | 51.8  | 51.8  | 51.9 | 51.9 | 51.9 | 51.9 | 51.9  | 51.9 | 51.9  |
| ≥ 9000          | 25.5                       | 38.1 | 41.0 | 43.7 | 46.7 | 50.3  | 51.9 | 52.2  | 52.2  | 52.3 | 52.3 | 52.3 | 52.3 | 52.3  | 52.3 | 52.3  |
| ≥ 8000          | 27.0                       | 39.6 | 43.3 | 45.9 | 49.5 | 53.4  | 55.1 | 55.3  | 55.3  | 55.5 | 55.5 | 55.5 | 55.5 | 55.5  | 55.5 | 55.5  |
| ≥ 7000          | 27.0                       | 39.8 | 43.5 | 46.2 | 49.7 | 53.9  | 55.6 | 55.8  | 55.8  | 56.0 | 56.0 | 56.0 | 56.0 | 56.0  | 56.0 | 56.0  |
| ≥ 6000          | 27.2                       | 40.0 | 43.7 | 46.3 | 50.0 | 54.2  | 56.0 | 56.2  | 56.2  | 56.3 | 56.3 | 56.3 | 56.3 | 56.3  | 56.3 | 56.3  |
| ≥ 5000          | 27.7                       | 40.7 | 44.5 | 47.3 | 51.0 | 55.2  | 57.0 | 57.2  | 57.2  | 57.4 | 57.4 | 57.4 | 57.4 | 57.4  | 57.4 | 57.4  |
| ≥ 4500          | 28.8                       | 42.3 | 46.2 | 49.0 | 52.7 | 56.9  | 58.6 | 58.9  | 58.9  | 59.0 | 59.0 | 59.0 | 59.0 | 59.0  | 59.0 | 59.0  |
| ≥ 4000          | 29.7                       | 43.7 | 47.6 | 50.5 | 54.6 | 59.3  | 61.0 | 61.3  | 61.3  | 61.4 | 61.4 | 61.4 | 61.4 | 61.4  | 61.4 | 61.4  |
| ≥ 3500          | 30.3                       | 44.3 | 48.2 | 51.1 | 55.2 | 60.0  | 61.8 | 62.1  | 62.1  | 62.2 | 62.2 | 62.2 | 62.2 | 62.2  | 62.2 | 62.2  |
| ≥ 3000          | 32.4                       | 47.2 | 51.3 | 54.3 | 58.5 | 63.3  | 65.2 | 65.5  | 65.5  | 65.6 | 65.6 | 65.6 | 65.6 | 65.6  | 65.6 | 65.6  |
| ≥ 2500          | 35.3                       | 51.3 | 55.7 | 58.8 | 63.2 | 68.4  | 70.7 | 71.1  | 71.1  | 71.2 | 71.2 | 71.2 | 71.2 | 71.2  | 71.2 | 71.2  |
| ≥ 2000          | 38.7                       | 55.7 | 60.3 | 63.3 | 68.0 | 73.4  | 75.8 | 76.1  | 76.1  | 76.3 | 76.3 | 76.3 | 76.3 | 76.3  | 76.3 | 76.3  |
| ≥ 1800          | 39.7                       | 56.9 | 61.4 | 64.5 | 69.2 | 74.5  | 77.0 | 77.4  | 77.4  | 77.5 | 77.5 | 77.5 | 77.5 | 77.5  | 77.5 | 77.5  |
| ≥ 1500          | 40.6                       | 58.8 | 63.8 | 66.9 | 71.6 | 77.0  | 79.8 | 80.3  | 80.3  | 80.5 | 80.5 | 80.5 | 80.5 | 80.5  | 80.5 | 80.5  |
| ≥ 1200          | 41.6                       | 61.2 | 66.6 | 70.1 | 75.0 | 80.8  | 83.8 | 84.4  | 84.4  | 84.6 | 84.6 | 84.6 | 84.6 | 84.6  | 84.6 | 84.6  |
| ≥ 1000          | 41.9                       | 61.9 | 67.6 | 71.2 | 76.8 | 82.7  | 85.7 | 86.5  | 86.5  | 86.8 | 86.8 | 86.8 | 86.8 | 86.8  | 86.8 | 86.8  |
| ≥ 900           | 42.1                       | 62.2 | 68.0 | 71.7 | 77.4 | 83.4  | 86.4 | 87.3  | 87.3  | 87.6 | 87.6 | 87.6 | 87.6 | 87.6  | 87.6 | 87.6  |
| ≥ 800           | 42.4                       | 62.7 | 68.9 | 72.6 | 78.3 | 84.3  | 87.4 | 88.3  | 88.3  | 88.6 | 88.6 | 88.6 | 88.6 | 88.6  | 88.6 | 88.6  |
| ≥ 700           | 42.4                       | 63.2 | 69.4 | 73.2 | 79.3 | 85.5  | 88.7 | 89.7  | 89.7  | 90.2 | 90.2 | 90.2 | 90.2 | 90.2  | 90.2 | 90.2  |
| ≥ 600           | 42.4                       | 63.5 | 69.8 | 73.6 | 79.7 | 86.3  | 89.8 | 91.1  | 91.1  | 91.8 | 91.8 | 91.8 | 91.8 | 91.8  | 91.8 | 91.8  |
| ≥ 500           | 42.4                       | 63.6 | 69.9 | 73.7 | 80.2 | 87.2  | 91.5 | 93.1  | 93.1  | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3  |
| ≥ 400           | 42.4                       | 63.7 | 70.3 | 74.1 | 80.6 | 87.6  | 92.3 | 94.7  | 94.8  | 96.3 | 96.4 | 96.4 | 96.4 | 96.4  | 96.4 | 96.4  |
| ≥ 300           | 42.4                       | 63.7 | 70.3 | 74.1 | 80.7 | 87.8  | 93.1 | 95.7  | 95.8  | 97.7 | 98.1 | 98.1 | 98.2 | 98.2  | 98.2 | 98.2  |
| ≥ 200           | 42.4                       | 63.7 | 70.3 | 74.1 | 80.7 | 87.9  | 93.3 | 95.9  | 96.1  | 98.0 | 98.6 | 98.6 | 98.7 | 98.7  | 98.9 | 98.9  |
| ≥ 100           | 42.4                       | 63.7 | 70.3 | 74.1 | 80.7 | 87.9  | 93.3 | 96.2  | 96.3  | 98.4 | 99.1 | 99.1 | 99.2 | 99.2  | 99.5 | 99.7  |
| ≥ 0             | 42.4                       | 63.7 | 70.3 | 74.1 | 80.7 | 87.9  | 93.3 | 96.2  | 96.3  | 98.4 | 99.1 | 99.1 | 99.2 | 99.2  | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 786

GLOBAL CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS LST

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2   | ≥2   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   |
| NO CEILING      | 22.3                     | 27.4 | 30.5 | 31.2 | 31.6 | 32.5 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 |
| ≥ 20000         | 28.3                     | 30.5 | 39.7 | 39.7 | 40.6 | 41.7 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 |
| ≥ 18000         | 28.9                     | 36.7 | 39.7 | 41.0 | 40.9 | 42.0 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| ≥ 16000         | 29.9                     | 36.7 | 39.7 | 40.0 | 40.9 | 42.0 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 | 42.2 |
| ≥ 14000         | 29.0                     | 37.6 | 39.8 | 40.9 | 41.7 | 42.9 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 |
| ≥ 12000         | 29.7                     | 38.0 | 40.2 | 41.6 | 42.6 | 43.7 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 |
| ≥ 10000         | 31.3                     | 41.0 | 43.5 | 45.1 | 46.1 | 47.2 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 | 47.6 |
| ≥ 9000          | 31.5                     | 41.2 | 43.5 | 45.4 | 46.4 | 47.5 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 |
| ≥ 8000          | 33.1                     | 43.2 | 46.0 | 47.7 | 49.7 | 50.3 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 | 50.6 |
| ≥ 7000          | 33.8                     | 43.7 | 46.5 | 48.2 | 49.2 | 50.9 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 |
| ≥ 6000          | 33.7                     | 44.0 | 46.7 | 48.5 | 49.5 | 51.1 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 | 51.6 |
| ≥ 5000          | 35.1                     | 45.5 | 48.2 | 50.0 | 51.1 | 52.9 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 | 53.4 |
| ≥ 4500          | 37.3                     | 48.5 | 51.4 | 53.3 | 54.4 | 56.3 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 | 56.9 |
| ≥ 4000          | 41.0                     | 52.4 | 55.4 | 57.4 | 58.8 | 60.8 | 61.4 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 |
| ≥ 3500          | 44.1                     | 56.4 | 59.4 | 61.5 | 63.0 | 65.0 | 65.7 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 | 65.8 |
| ≥ 3000          | 47.6                     | 61.4 | 64.2 | 67.2 | 68.8 | 71.3 | 72.1 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 | 72.4 |
| ≥ 2500          | 50.4                     | 66.4 | 70.3 | 72.9 | 74.7 | 77.6 | 78.4 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 |
| ≥ 2000          | 52.7                     | 71.2 | 74.3 | 77.7 | 79.9 | 83.7 | 84.1 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 | 84.5 |
| ≥ 1800          | 53.4                     | 71.8 | 76.9 | 80.2 | 82.6 | 85.6 | 86.7 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 |
| ≥ 1500          | 53.6                     | 72.6 | 78.3 | 81.8 | 84.2 | 87.3 | 88.5 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 |
| ≥ 1200          | 53.7                     | 72.9 | 79.4 | 83.3 | 85.7 | 88.8 | 90.7 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 | 91.4 |
| ≥ 1000          | 53.7                     | 73.2 | 79.8 | 84.2 | 86.8 | 90.2 | 92.1 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 |
| ≥ 900           | 54.0                     | 73.4 | 80.1 | 84.5 | 87.3 | 90.9 | 92.7 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 |
| ≥ 800           | 54.4                     | 73.8 | 80.5 | 85.0 | 87.8 | 91.5 | 93.5 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 |
| ≥ 700           | 54.7                     | 74.3 | 81.0 | 85.5 | 88.8 | 92.9 | 95.1 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 | 95.7 |
| ≥ 600           | 54.7                     | 74.3 | 81.1 | 85.6 | 89.1 | 93.1 | 95.7 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 |
| ≥ 500           | 54.7                     | 74.7 | 81.6 | 86.1 | 89.6 | 93.6 | 96.7 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 | 97.6 |
| ≥ 400           | 54.7                     | 74.8 | 81.7 | 86.3 | 89.8 | 93.9 | 98.0 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 |
| ≥ 300           | 54.7                     | 74.8 | 81.8 | 86.6 | 90.2 | 94.2 | 98.5 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 |
| ≥ 200           | 54.7                     | 74.8 | 81.8 | 86.6 | 90.2 | 94.2 | 98.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 |
| ≥ 100           | 54.7                     | 74.8 | 81.8 | 86.6 | 90.2 | 94.2 | 98.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 |
| ≥ 0             | 54.7                     | 74.8 | 81.8 | 86.6 | 90.2 | 94.2 | 98.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 | 99.5 |

TOTAL NUMBER OF OBSERVATIONS 798

AIRL CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS LST

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.2 | ≥1   | ≥.75 | ≥.5  | ≥.25 | ≥.16 | ≥.1  | ≥0   |
| NO CEILING      | 37.3                     | 35.5 | 37.2 | 37.4 | 39.3 | 38.4 | 39.5 | 38.5 | 39.5 | 38.5 | 38.5 | 39.5 | 38.5 | 38.5 | 38.5 | 38.5 |
| ≥ 20000         | 35.9                     | 43.7 | 46.1 | 46.8 | 48.0 | 48.1 | 48.4 | 48.4 | 48.4 | 48.4 | 48.4 | 48.4 | 48.4 | 48.4 | 48.4 | 48.4 |
| ≥ 18000         | 35.7                     | 43.9 | 46.7 | 47.5 | 48.6 | 48.7 | 49.7 | 49.0 | 49.7 | 49.0 | 49.7 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 |
| ≥ 16000         | 35.6                     | 44.1 | 46.5 | 47.6 | 48.7 | 48.9 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 | 49.1 |
| ≥ 14000         | 37.1                     | 45.2 | 47.5 | 48.7 | 49.9 | 51.1 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 | 51.4 |
| ≥ 12000         | 38.1                     | 47.0 | 49.5 | 50.8 | 51.9 | 52.1 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 |
| ≥ 10000         | 40.7                     | 53.8 | 53.3 | 54.5 | 55.8 | 56.1 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 |
| ≥ 9000          | 41.0                     | 51.1 | 53.4 | 55.2 | 56.4 | 56.7 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 | 57.3 |
| ≥ 8000          | 42.2                     | 52.7 | 55.4 | 56.7 | 58.1 | 59.0 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 |
| ≥ 7000          | 42.2                     | 53.7 | 56.6 | 57.8 | 59.2 | 60.1 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 | 60.7 |
| ≥ 6000          | 43.3                     | 54.7 | 57.6 | 58.8 | 60.4 | 61.2 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 | 61.9 |
| ≥ 5000          | 45.3                     | 56.9 | 60.0 | 61.2 | 62.9 | 63.9 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 | 64.5 |
| ≥ 4500          | 47.5                     | 59.3 | 62.5 | 63.9 | 65.8 | 66.8 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 | 67.6 |
| ≥ 4000          | 49.1                     | 62.1 | 66.1 | 67.6 | 69.4 | 70.7 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 |
| ≥ 3500          | 52.3                     | 67.1 | 71.5 | 73.7 | 76.0 | 77.4 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 | 78.2 |
| ≥ 3000          | 54.7                     | 69.9 | 74.7 | 77.3 | 79.5 | 81.4 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 | 82.2 |
| ≥ 2500          | 56.1                     | 72.6 | 77.8 | 81.1 | 83.5 | 85.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 | 86.5 |
| ≥ 2000          | 57.6                     | 74.9 | 80.4 | 84.6 | 87.8 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 |
| ≥ 1800          | 57.6                     | 75.5 | 81.2 | 85.4 | 89.6 | 91.7 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 | 92.0 |
| ≥ 1500          | 59.3                     | 76.4 | 82.2 | 86.4 | 90.2 | 92.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 | 93.7 |
| ≥ 1200          | 53.7                     | 77.1 | 83.0 | 87.2 | 91.2 | 93.8 | 94.8 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 |
| ≥ 1000          | 54.7                     | 77.3 | 83.1 | 87.4 | 91.3 | 94.1 | 95.3 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 |
| ≥ 900           | 59.7                     | 77.7 | 83.5 | 87.8 | 91.7 | 94.4 | 96.2 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 |
| ≥ 800           | 59.7                     | 77.8 | 83.6 | 88.0 | 91.9 | 94.8 | 96.6 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 |
| ≥ 700           | 59.7                     | 77.9 | 83.7 | 88.3 | 92.2 | 95.2 | 97.7 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 | 97.2 |
| ≥ 600           | 59.7                     | 78.0 | 83.8 | 88.4 | 92.4 | 95.7 | 97.6 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 |
| ≥ 500           | 59.7                     | 78.2 | 84.0 | 88.5 | 92.6 | 96.0 | 97.9 | 98.4 | 98.5 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 |
| ≥ 400           | 59.7                     | 78.2 | 84.0 | 88.5 | 92.6 | 96.0 | 98.1 | 98.9 | 99.7 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 | 99.1 |
| ≥ 300           | 59.7                     | 78.2 | 84.0 | 88.5 | 92.6 | 96.0 | 98.1 | 99.2 | 99.4 | 99.7 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| ≥ 200           | 59.7                     | 78.2 | 84.0 | 88.5 | 92.6 | 96.0 | 98.1 | 99.2 | 99.4 | 99.7 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| ≥ 100           | 59.7                     | 78.2 | 84.0 | 88.5 | 92.6 | 96.0 | 98.1 | 99.2 | 99.4 | 99.7 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| ≥ 0             | 59.7                     | 78.2 | 84.0 | 88.5 | 92.6 | 96.0 | 98.1 | 99.2 | 99.4 | 99.7 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |

TOTAL NUMBER OF OBSERVATIONS 792

U.S. AIR FORCE  
 WEATHER SERVICE/AFAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1870-2000

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥.4  |
| NO CEILING      | 43.2                       | 44.4 | 46.6 | 48.0 | 49.4 | 44.5 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 | 50.0 |
| ≥ 20000         | 42.2                       | 44.0 | 52.8 | 54.5 | 55.1 | 56.5 | 57.3 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 | 57.4 |
| ≥ 18000         | 42.6                       | 57.4 | 53.3 | 55.0 | 55.6 | 57.7 | 57.8 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 |
| ≥ 16000         | 42.6                       | 57.4 | 53.3 | 55.0 | 55.6 | 57.7 | 57.8 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 |
| ≥ 14000         | 43.2                       | 51.1 | 54.5 | 55.8 | 56.4 | 57.8 | 58.5 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 |
| ≥ 12000         | 44.4                       | 52.5 | 55.9 | 57.9 | 59.5 | 59.9 | 60.8 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 |
| ≥ 10000         | 44.5                       | 55.3 | 58.8 | 61.8 | 61.4 | 62.9 | 63.8 | 63.9 | 63.9 | 63.9 | 63.9 | 63.9 | 63.9 | 63.9 | 63.9 | 63.9 |
| ≥ 9000          | 47.4                       | 56.1 | 59.6 | 61.7 | 62.3 | 63.8 | 64.7 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 |
| ≥ 8000          | 48.3                       | 57.6 | 61.2 | 63.2 | 63.8 | 65.5 | 66.4 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 |
| ≥ 7000          | 48.9                       | 58.9 | 62.4 | 64.5 | 65.2 | 67.0 | 67.9 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 | 68.0 |
| ≥ 6000          | 49.7                       | 59.9 | 63.4 | 65.5 | 66.2 | 68.3 | 69.2 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 | 69.3 |
| ≥ 5000          | 51.8                       | 64.4 | 68.7 | 71.2 | 71.8 | 73.1 | 73.9 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 | 74.1 |
| ≥ 4500          | 52.8                       | 66.0 | 70.2 | 72.3 | 73.3 | 75.6 | 76.4 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 | 76.6 |
| ≥ 4000          | 54.4                       | 58.5 | 72.9 | 75.3 | 76.4 | 78.9 | 79.8 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 | 79.9 |
| ≥ 3500          | 55.9                       | 77.6 | 75.1 | 77.8 | 79.3 | 82.0 | 83.0 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 | 83.1 |
| ≥ 3000          | 57.9                       | 73.3 | 73.2 | 81.3 | 82.6 | 86.0 | 87.0 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 |
| ≥ 2500          | 58.6                       | 75.4 | 80.5 | 83.3 | 85.7 | 88.7 | 89.8 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 | 90.1 |
| ≥ 2000          | 59.7                       | 76.1 | 81.5 | 85.2 | 87.0 | 90.7 | 91.9 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 | 92.1 |
| ≥ 1800          | 59.4                       | 76.6 | 82.1 | 85.8 | 87.7 | 91.5 | 92.6 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 | 92.9 |
| ≥ 1500          | 59.3                       | 77.1 | 83.0 | 86.6 | 88.7 | 92.9 | 94.0 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 | 94.2 |
| ≥ 1200          | 59.9                       | 77.3 | 83.3 | 87.3 | 89.2 | 93.9 | 95.2 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 | 95.6 |
| ≥ 1000          | 59.7                       | 77.3 | 83.5 | 87.5 | 89.3 | 94.1 | 95.6 | 96.1 | 96.1 | 96.2 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 | 96.4 |
| ≥ 900           | 59.9                       | 77.3 | 83.5 | 87.5 | 89.3 | 94.1 | 95.7 | 96.2 | 96.2 | 96.4 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 | 96.5 |
| ≥ 800           | 59.9                       | 77.4 | 83.5 | 87.6 | 89.5 | 94.4 | 96.2 | 96.6 | 96.6 | 96.9 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 | 97.0 |
| ≥ 700           | 59.9                       | 77.8 | 84.1 | 88.1 | 90.0 | 95.2 | 96.9 | 97.7 | 97.7 | 98.0 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 |
| ≥ 600           | 59.9                       | 77.9 | 84.2 | 88.3 | 90.2 | 95.5 | 97.1 | 98.0 | 98.0 | 98.2 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 |
| ≥ 500           | 59.9                       | 77.9 | 84.2 | 88.3 | 90.2 | 95.5 | 97.2 | 98.1 | 98.1 | 98.4 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 | 98.5 |
| ≥ 400           | 59.9                       | 77.9 | 84.2 | 88.3 | 90.2 | 95.7 | 97.5 | 98.6 | 98.6 | 98.9 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 | 99.0 |
| ≥ 300           | 59.9                       | 77.9 | 84.2 | 88.3 | 90.2 | 95.9 | 97.6 | 98.9 | 98.9 | 99.1 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 |
| ≥ 200           | 59.9                       | 77.9 | 84.2 | 88.5 | 90.4 | 96.0 | 97.7 | 99.0 | 99.0 | 99.4 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 |
| ≥ 100           | 59.9                       | 77.9 | 84.2 | 88.5 | 90.4 | 96.0 | 97.7 | 99.0 | 99.0 | 99.4 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 |
| ≥ 0             | 59.9                       | 77.9 | 84.2 | 88.5 | 90.4 | 96.0 | 97.7 | 99.0 | 99.0 | 99.4 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 |

TOTAL NUMBER OF OBSERVATIONS 792



U.S. AIR FORCE  
 U.S. AIR FORCE  
 WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

SEP

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

2100-2300  
 HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |      |       |        |       |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|------|-------|--------|-------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥0.5 | ≥0.25 | ≥0.1 | ≥0.05 | ≥0.025 | ≥0.01 | ≥0   |
| NO CEILING      | 35.7                     | 44.9 | 45.4 | 42.8 | 49.2 | 49.5 | 50.1 | 50.1 | 50.1 | 50.4 | 50.6  | 50.6 | 50.6  | 50.6   | 50.8  | 50.8 |
| ≥ 20000         | 37.7                     | 47.9 | 51.4 | 52.5 | 53.2 | 53.9 | 54.8 | 54.8 | 54.8 | 55.1 | 55.3  | 55.3 | 55.3  | 55.3   | 55.5  | 55.5 |
| ≥ 18000         | 37.7                     | 48.1 | 51.5 | 52.6 | 53.4 | 54.3 | 54.9 | 54.9 | 54.9 | 55.2 | 55.5  | 55.5 | 55.5  | 55.5   | 55.6  | 55.6 |
| ≥ 16000         | 37.7                     | 48.1 | 51.5 | 52.6 | 53.4 | 54.3 | 54.9 | 54.9 | 54.9 | 55.2 | 55.5  | 55.5 | 55.5  | 55.5   | 55.6  | 55.6 |
| ≥ 14000         | 37.7                     | 48.3 | 51.8 | 52.9 | 53.6 | 54.3 | 55.2 | 55.2 | 55.2 | 55.5 | 55.7  | 55.7 | 55.7  | 55.7   | 55.8  | 55.8 |
| ≥ 12000         | 37.7                     | 48.3 | 51.8 | 52.9 | 53.6 | 54.3 | 55.2 | 55.2 | 55.2 | 55.5 | 55.7  | 55.7 | 55.7  | 55.7   | 55.8  | 55.8 |
| ≥ 10000         | 41.7                     | 53.0 | 55.9 | 57.9 | 58.7 | 59.9 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8  | 61.8 | 61.8  | 61.8   | 61.8  | 61.8 |
| ≥ 9000          | 42.9                     | 54.3 | 57.1 | 59.2 | 60.0 | 61.2 | 62.1 | 62.1 | 62.1 | 62.3 | 62.6  | 62.6 | 62.6  | 62.6   | 62.7  | 62.7 |
| ≥ 8000          | 44.5                     | 57.3 | 61.1 | 62.3 | 63.1 | 64.3 | 65.2 | 65.2 | 65.2 | 65.5 | 65.7  | 65.7 | 65.7  | 65.7   | 65.8  | 65.8 |
| ≥ 7000          | 45.5                     | 59.7 | 62.9 | 65.1 | 65.8 | 67.0 | 67.9 | 67.9 | 67.9 | 68.2 | 68.4  | 68.4 | 68.4  | 68.4   | 68.6  | 68.6 |
| ≥ 6000          | 45.7                     | 61.6 | 63.8 | 66.1 | 66.9 | 68.1 | 69.0 | 69.0 | 69.0 | 69.2 | 69.5  | 69.5 | 69.5  | 69.5   | 69.6  | 69.6 |
| ≥ 5000          | 46.5                     | 63.5 | 67.1 | 69.5 | 70.3 | 71.6 | 72.5 | 72.5 | 72.5 | 72.7 | 73.0  | 73.0 | 73.0  | 73.0   | 73.1  | 73.1 |
| ≥ 4500          | 48.2                     | 65.7 | 69.9 | 72.3 | 73.1 | 74.4 | 75.3 | 75.3 | 75.3 | 75.6 | 75.8  | 75.8 | 75.8  | 75.8   | 76.0  | 76.0 |
| ≥ 4000          | 50.5                     | 68.7 | 73.1 | 76.0 | 77.0 | 78.3 | 79.2 | 79.2 | 79.2 | 79.5 | 79.7  | 79.7 | 79.7  | 79.7   | 79.9  | 79.9 |
| ≥ 3500          | 51.1                     | 71.9 | 75.3 | 78.2 | 79.5 | 80.8 | 81.7 | 81.7 | 81.7 | 81.9 | 82.2  | 82.2 | 82.2  | 82.2   | 82.3  | 82.3 |
| ≥ 3000          | 53.0                     | 73.6 | 78.2 | 81.6 | 83.2 | 84.7 | 85.6 | 85.6 | 85.6 | 85.8 | 86.1  | 86.1 | 86.1  | 86.1   | 86.2  | 86.2 |
| ≥ 2500          | 53.2                     | 75.3 | 81.1 | 83.8 | 85.5 | 87.7 | 88.1 | 88.1 | 88.1 | 88.4 | 88.7  | 88.7 | 88.7  | 88.7   | 88.8  | 88.8 |
| ≥ 2000          | 53.9                     | 76.4 | 81.5 | 85.8 | 87.8 | 89.5 | 90.5 | 90.5 | 90.5 | 90.9 | 91.2  | 91.2 | 91.2  | 91.2   | 91.3  | 91.3 |
| ≥ 1800          | 54.3                     | 77.0 | 82.3 | 86.6 | 88.6 | 90.3 | 91.3 | 91.3 | 91.3 | 91.7 | 91.9  | 91.9 | 91.9  | 91.9   | 92.1  | 92.1 |
| ≥ 1500          | 54.5                     | 77.4 | 82.9 | 87.1 | 89.1 | 90.9 | 91.9 | 91.9 | 91.9 | 92.3 | 92.6  | 92.6 | 92.6  | 92.6   | 92.7  | 92.7 |
| ≥ 1200          | 54.5                     | 77.5 | 83.2 | 87.5 | 89.5 | 91.3 | 92.5 | 92.6 | 92.6 | 93.0 | 93.2  | 93.2 | 93.2  | 93.2   | 93.4  | 93.4 |
| ≥ 1000          | 54.7                     | 78.2 | 84.2 | 88.6 | 90.5 | 92.3 | 93.6 | 93.8 | 93.8 | 94.2 | 94.4  | 94.4 | 94.4  | 94.4   | 94.5  | 94.5 |
| ≥ 900           | 54.9                     | 78.7 | 84.7 | 89.4 | 91.3 | 93.1 | 94.4 | 94.5 | 94.5 | 94.9 | 95.2  | 95.2 | 95.2  | 95.2   | 95.3  | 95.3 |
| ≥ 800           | 55.1                     | 79.1 | 84.9 | 89.6 | 91.6 | 93.4 | 94.7 | 94.8 | 94.8 | 95.2 | 95.5  | 95.5 | 95.5  | 95.5   | 95.6  | 95.6 |
| ≥ 700           | 55.1                     | 79.1 | 85.1 | 89.9 | 91.8 | 93.8 | 95.1 | 95.2 | 95.2 | 95.6 | 95.8  | 95.8 | 95.8  | 95.8   | 96.0  | 96.0 |
| ≥ 600           | 55.2                     | 79.7 | 85.7 | 90.6 | 92.6 | 94.8 | 96.1 | 96.2 | 96.2 | 96.6 | 96.9  | 96.9 | 96.9  | 96.9   | 97.0  | 97.0 |
| ≥ 500           | 55.2                     | 79.9 | 85.8 | 91.0 | 93.0 | 95.6 | 97.3 | 97.4 | 97.4 | 97.9 | 98.2  | 98.2 | 98.2  | 98.2   | 98.3  | 98.3 |
| ≥ 400           | 55.2                     | 79.9 | 85.8 | 91.0 | 93.0 | 95.6 | 97.4 | 97.7 | 97.7 | 98.2 | 98.4  | 98.4 | 98.4  | 98.4   | 98.6  | 98.6 |
| ≥ 300           | 55.2                     | 79.9 | 86.1 | 91.4 | 93.4 | 96.0 | 97.8 | 98.1 | 98.1 | 99.0 | 99.4  | 99.4 | 99.4  | 99.4   | 99.5  | 99.5 |
| ≥ 200           | 55.2                     | 79.9 | 86.1 | 91.4 | 93.4 | 96.0 | 97.8 | 98.1 | 98.1 | 99.1 | 99.5  | 99.5 | 99.5  | 99.5   | 99.6  | 99.6 |
| ≥ 100           | 55.2                     | 79.9 | 86.1 | 91.4 | 93.4 | 96.0 | 97.8 | 98.1 | 98.1 | 99.1 | 99.5  | 99.5 | 99.5  | 99.5   | 99.6  | 99.6 |
| ≥ 0             | 55.2                     | 79.9 | 86.1 | 91.4 | 93.4 | 96.0 | 97.8 | 98.1 | 98.1 | 99.1 | 99.5  | 99.5 | 99.5  | 99.5   | 99.6  | 99.6 |

TOTAL NUMBER OF OBSERVATIONS 770

CLIMATE CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH  
STATION NAME

73-31

YEARS

SE  
MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |       |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥8   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.25 | ≥1   | ≥.75 | ≥.5  | ≥.25 | ≥.16 | ≥.1  | ≥.0   |
| NO CEILING      | 27.5                     | 35.6 | 37.9 | 39.6 | 43.9 | 42.1 | 43.4 | 43.6 | 43.6  | 43.8 | 44.0 | 44.0 | 44.1 | 44.1 | 44.2 | 44.3  |
| ≥ 20000         | 30.9                     | 40.2 | 43.0 | 45.1 | 46.6 | 48.0 | 49.5 | 49.8 | 49.8  | 50.0 | 50.2 | 50.2 | 50.4 | 50.4 | 50.4 | 50.5  |
| ≥ 18000         | 31.0                     | 40.4 | 43.2 | 45.3 | 46.9 | 48.2 | 49.8 | 50.1 | 50.1  | 50.3 | 50.5 | 50.5 | 50.6 | 50.6 | 50.7 | 50.8  |
| ≥ 16000         | 31.1                     | 40.4 | 43.2 | 45.3 | 46.9 | 48.2 | 49.8 | 50.1 | 50.1  | 50.3 | 50.5 | 50.5 | 50.6 | 50.7 | 50.7 | 50.8  |
| ≥ 14000         | 31.5                     | 40.9 | 43.8 | 45.9 | 47.5 | 48.9 | 50.5 | 50.8 | 50.8  | 51.0 | 51.2 | 51.2 | 51.3 | 51.3 | 51.4 | 51.5  |
| ≥ 12000         | 32.2                     | 41.9 | 44.8 | 47.1 | 48.7 | 50.1 | 51.7 | 52.0 | 52.0  | 52.3 | 52.4 | 52.4 | 52.6 | 52.6 | 52.7 | 52.7  |
| ≥ 10000         | 34.4                     | 45.4 | 48.6 | 51.0 | 52.7 | 54.2 | 55.8 | 56.2 | 56.2  | 56.4 | 56.6 | 56.6 | 56.7 | 56.7 | 56.8 | 56.9  |
| ≥ 9000          | 35.1                     | 46.0 | 49.2 | 51.6 | 53.3 | 54.8 | 56.5 | 56.9 | 56.9  | 57.1 | 57.3 | 57.3 | 57.4 | 57.4 | 57.5 | 57.6  |
| ≥ 8000          | 36.2                     | 48.0 | 51.4 | 53.9 | 55.7 | 57.5 | 59.2 | 59.6 | 59.6  | 59.8 | 59.9 | 59.9 | 60.1 | 60.1 | 60.2 | 60.2  |
| ≥ 7000          | 35.7                     | 49.0 | 52.5 | 55.0 | 56.9 | 58.7 | 60.4 | 60.8 | 60.8  | 61.0 | 61.2 | 61.2 | 61.3 | 61.3 | 61.4 | 61.5  |
| ≥ 6000          | 37.1                     | 49.6 | 53.1 | 55.6 | 57.5 | 59.4 | 61.2 | 61.5 | 61.5  | 61.7 | 61.9 | 61.9 | 62.1 | 62.1 | 62.1 | 62.2  |
| ≥ 5000          | 38.4                     | 51.6 | 55.5 | 58.2 | 60.2 | 62.1 | 63.9 | 64.3 | 64.3  | 64.6 | 64.7 | 64.7 | 64.9 | 64.9 | 65.0 | 65.0  |
| ≥ 4500          | 39.7                     | 53.7 | 57.7 | 60.4 | 62.5 | 64.5 | 66.4 | 66.8 | 66.8  | 67.0 | 67.2 | 67.2 | 67.4 | 67.4 | 67.5 | 67.5  |
| ≥ 4000          | 41.6                     | 56.4 | 60.6 | 63.5 | 65.8 | 68.0 | 69.9 | 70.3 | 70.3  | 70.6 | 70.8 | 70.8 | 70.9 | 70.9 | 71.0 | 71.1  |
| ≥ 3500          | 43.1                     | 58.7 | 63.1 | 66.3 | 68.8 | 71.1 | 73.0 | 73.5 | 73.5  | 73.8 | 74.0 | 74.0 | 74.2 | 74.2 | 74.2 | 74.3  |
| ≥ 3000          | 45.1                     | 61.6 | 66.7 | 69.6 | 72.3 | 74.8 | 76.8 | 77.3 | 77.3  | 77.6 | 77.8 | 77.8 | 78.0 | 78.0 | 78.1 | 78.2  |
| ≥ 2500          | 46.2                     | 64.0 | 69.1 | 72.0 | 75.4 | 78.1 | 80.3 | 80.9 | 80.9  | 81.2 | 81.5 | 81.5 | 81.6 | 81.6 | 81.7 | 81.8  |
| ≥ 2000          | 47.3                     | 66.1 | 71.3 | 75.4 | 79.5 | 81.3 | 83.6 | 84.3 | 84.3  | 84.6 | 84.9 | 84.9 | 85.0 | 85.1 | 85.1 | 85.2  |
| ≥ 1800          | 47.8                     | 66.7 | 72.2 | 76.3 | 79.4 | 82.3 | 84.6 | 85.3 | 85.3  | 85.6 | 85.9 | 85.9 | 86.0 | 86.1 | 86.1 | 86.2  |
| ≥ 1500          | 48.2                     | 67.4 | 73.1 | 77.4 | 81.6 | 83.5 | 85.9 | 86.6 | 86.6  | 87.0 | 87.3 | 87.3 | 87.4 | 87.4 | 87.5 | 87.6  |
| ≥ 1200          | 48.6                     | 68.3 | 74.2 | 78.7 | 82.0 | 85.1 | 87.7 | 88.6 | 88.6  | 89.0 | 89.2 | 89.2 | 89.4 | 89.4 | 89.5 | 89.6  |
| ≥ 1000          | 48.7                     | 68.8 | 74.9 | 79.5 | 83.0 | 86.3 | 88.9 | 89.8 | 89.9  | 90.3 | 90.5 | 90.5 | 90.7 | 90.7 | 90.8 | 90.8  |
| ≥ 900           | 48.9                     | 69.1 | 75.2 | 79.9 | 83.5 | 86.7 | 89.6 | 90.5 | 90.5  | 90.9 | 91.2 | 91.2 | 91.4 | 91.4 | 91.4 | 91.5  |
| ≥ 800           | 49.0                     | 69.4 | 75.6 | 80.3 | 83.9 | 87.3 | 90.1 | 91.1 | 91.2  | 91.7 | 91.9 | 91.9 | 92.1 | 92.1 | 92.2 | 92.2  |
| ≥ 700           | 49.1                     | 69.7 | 76.0 | 80.8 | 84.5 | 88.1 | 91.0 | 92.0 | 92.1  | 92.6 | 92.9 | 92.9 | 93.1 | 93.1 | 93.1 | 93.2  |
| ≥ 600           | 49.2                     | 69.9 | 76.3 | 81.2 | 85.0 | 88.7 | 91.8 | 92.9 | 92.9  | 93.5 | 93.8 | 93.8 | 94.0 | 94.0 | 94.0 | 94.1  |
| ≥ 500           | 49.2                     | 70.2 | 76.6 | 81.7 | 85.7 | 89.6 | 93.0 | 94.2 | 94.3  | 95.1 | 95.4 | 95.4 | 95.6 | 95.7 | 95.7 | 95.8  |
| ≥ 400           | 49.2                     | 70.3 | 76.8 | 81.9 | 86.0 | 90.0 | 93.9 | 95.4 | 95.4  | 96.4 | 96.9 | 96.9 | 97.1 | 97.1 | 97.2 | 97.3  |
| ≥ 300           | 49.2                     | 70.3 | 76.9 | 82.2 | 86.3 | 90.4 | 94.6 | 96.2 | 96.3  | 97.5 | 98.1 | 98.1 | 98.4 | 98.4 | 98.5 | 98.6  |
| ≥ 200           | 49.2                     | 70.3 | 76.9 | 82.2 | 86.4 | 90.5 | 94.6 | 96.4 | 96.5  | 97.7 | 98.4 | 98.4 | 98.8 | 98.8 | 99.0 | 99.1  |
| ≥ 100           | 49.2                     | 70.3 | 76.9 | 82.2 | 86.4 | 90.5 | 94.7 | 96.5 | 96.6  | 97.9 | 98.6 | 98.6 | 99.1 | 99.1 | 99.3 | 99.5  |
| ≥ 0             | 49.2                     | 70.3 | 76.9 | 82.2 | 86.4 | 90.5 | 94.7 | 96.5 | 96.6  | 97.9 | 98.6 | 98.6 | 99.1 | 99.1 | 99.4 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 6262

LOCAL CLIMATOLOGY BRANCH  
METAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
FOUNESTON MAP OH

73-81

YEARS

OCT

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1030-0120  
LOCAL TIME

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥.4  |
| NO CEILING      | 32.7                     | 41.0 | 42.4 | 44.0 | 44.8 | 45.2 | 45.3 | 45.3 | 45.3 | 46.7 | 46.7 | 46.7 | 46.8 | 46.8 | 47.0 | 47.2 |
| ≥ 20000         | 33.3                     | 42.1 | 44.5 | 46.1 | 46.9 | 47.3 | 47.4 | 47.4 | 47.4 | 48.7 | 48.7 | 48.7 | 48.8 | 48.8 | 49.1 | 49.2 |
| ≥ 18000         | 33.3                     | 42.1 | 44.5 | 46.1 | 46.9 | 47.3 | 47.4 | 47.4 | 47.4 | 48.7 | 48.7 | 48.7 | 48.8 | 48.8 | 49.1 | 49.2 |
| ≥ 16000         | 33.5                     | 42.2 | 44.6 | 46.2 | 47.0 | 47.4 | 47.5 | 47.5 | 47.5 | 48.8 | 48.8 | 48.8 | 48.9 | 48.9 | 49.2 | 49.3 |
| ≥ 14000         | 33.5                     | 42.2 | 44.6 | 46.2 | 47.0 | 47.4 | 47.5 | 47.5 | 47.5 | 48.8 | 48.8 | 48.8 | 49.0 | 49.0 | 49.2 | 49.3 |
| ≥ 12000         | 34.1                     | 43.2 | 45.6 | 47.2 | 48.0 | 48.4 | 48.5 | 48.5 | 48.5 | 49.8 | 49.8 | 49.8 | 49.9 | 49.9 | 50.2 | 50.3 |
| ≥ 10000         | 35.5                     | 46.2 | 48.6 | 50.2 | 51.0 | 51.4 | 51.5 | 51.5 | 51.5 | 52.8 | 52.8 | 52.8 | 53.0 | 53.0 | 53.2 | 53.3 |
| ≥ 9000          | 37.2                     | 47.2 | 49.6 | 51.2 | 52.0 | 52.4 | 52.5 | 52.5 | 52.5 | 53.8 | 53.8 | 53.8 | 53.9 | 53.9 | 54.2 | 54.3 |
| ≥ 8000          | 38.7                     | 49.2 | 51.6 | 53.2 | 54.1 | 54.4 | 54.5 | 54.7 | 54.8 | 56.1 | 56.1 | 56.1 | 56.2 | 56.2 | 56.5 | 56.6 |
| ≥ 7000          | 39.2                     | 51.0 | 53.7 | 55.3 | 56.2 | 56.6 | 56.7 | 56.8 | 57.1 | 58.4 | 58.4 | 58.4 | 58.5 | 58.5 | 58.8 | 58.9 |
| ≥ 6000          | 39.4                     | 51.5 | 54.2 | 55.9 | 56.8 | 57.2 | 57.3 | 57.5 | 57.7 | 59.0 | 59.0 | 59.0 | 59.2 | 59.2 | 59.4 | 59.5 |
| ≥ 5000          | 41.5                     | 54.4 | 57.1 | 58.9 | 59.9 | 60.4 | 60.5 | 60.6 | 60.6 | 62.2 | 62.2 | 62.2 | 62.3 | 62.3 | 62.5 | 62.7 |
| ≥ 4500          | 43.5                     | 57.3 | 59.6 | 61.6 | 62.5 | 63.0 | 63.2 | 63.3 | 63.5 | 64.8 | 64.8 | 64.8 | 65.0 | 65.0 | 65.2 | 65.3 |
| ≥ 4000          | 46.5                     | 61.6 | 63.3 | 65.5 | 66.4 | 66.9 | 67.0 | 67.2 | 67.4 | 68.7 | 68.7 | 68.7 | 68.8 | 68.8 | 69.1 | 69.2 |
| ≥ 3500          | 49.0                     | 64.1 | 66.8 | 69.2 | 71.3 | 71.8 | 71.9 | 71.0 | 71.3 | 72.6 | 72.6 | 72.6 | 72.7 | 72.7 | 73.0 | 73.1 |
| ≥ 3000          | 51.5                     | 67.8 | 70.5 | 73.2 | 74.3 | 74.8 | 74.9 | 75.0 | 75.3 | 76.6 | 76.6 | 76.6 | 76.7 | 76.7 | 77.0 | 77.1 |
| ≥ 2500          | 52.8                     | 69.9 | 73.0 | 76.0 | 77.1 | 77.6 | 77.7 | 77.8 | 78.1 | 79.4 | 79.4 | 79.4 | 79.5 | 79.5 | 79.8 | 79.9 |
| ≥ 2000          | 54.4                     | 73.2 | 76.2 | 79.5 | 80.6 | 81.1 | 81.2 | 81.3 | 81.6 | 82.9 | 82.9 | 82.9 | 83.0 | 83.0 | 83.3 | 83.4 |
| ≥ 1800          | 55.7                     | 74.3 | 77.3 | 80.6 | 81.7 | 82.3 | 82.4 | 82.5 | 82.8 | 84.1 | 84.1 | 84.1 | 84.2 | 84.2 | 84.5 | 84.6 |
| ≥ 1500          | 55.4                     | 75.5 | 79.5 | 81.9 | 83.2 | 83.8 | 83.9 | 84.0 | 84.2 | 85.6 | 85.6 | 85.6 | 85.7 | 85.7 | 85.9 | 86.1 |
| ≥ 1200          | 56.0                     | 76.7 | 80.0 | 83.5 | 84.7 | 85.3 | 85.5 | 85.6 | 85.8 | 87.2 | 87.2 | 87.2 | 87.3 | 87.3 | 87.5 | 87.6 |
| ≥ 1000          | 56.4                     | 77.3 | 81.7 | 84.5 | 85.7 | 86.3 | 86.5 | 86.8 | 87.0 | 88.4 | 88.4 | 88.4 | 88.5 | 88.5 | 88.7 | 88.8 |
| ≥ 900           | 56.4                     | 77.6 | 81.0 | 84.7 | 86.1 | 86.7 | 86.9 | 87.2 | 87.4 | 88.7 | 88.7 | 88.7 | 88.8 | 88.8 | 89.1 | 89.2 |
| ≥ 800           | 56.4                     | 77.7 | 81.1 | 84.8 | 86.3 | 86.9 | 87.4 | 87.6 | 87.9 | 89.3 | 89.3 | 89.3 | 89.5 | 89.5 | 89.7 | 89.8 |
| ≥ 700           | 56.5                     | 77.9 | 81.3 | 85.5 | 87.0 | 87.6 | 88.2 | 88.5 | 88.7 | 90.2 | 90.2 | 90.2 | 90.3 | 90.3 | 90.5 | 90.7 |
| ≥ 600           | 56.5                     | 78.3 | 81.9 | 86.3 | 88.1 | 88.8 | 89.7 | 90.1 | 90.3 | 91.9 | 91.9 | 91.9 | 92.0 | 92.0 | 92.2 | 92.4 |
| ≥ 500           | 56.6                     | 79.3 | 83.0 | 87.6 | 89.6 | 90.3 | 91.2 | 91.6 | 91.9 | 93.5 | 93.5 | 93.5 | 93.6 | 93.6 | 93.8 | 93.9 |
| ≥ 400           | 56.6                     | 79.4 | 83.6 | 88.5 | 90.9 | 91.9 | 92.8 | 93.3 | 93.6 | 95.2 | 95.2 | 95.2 | 95.3 | 95.3 | 95.5 | 95.6 |
| ≥ 300           | 56.6                     | 79.4 | 83.9 | 89.0 | 91.9 | 93.3 | 94.7 | 95.2 | 95.4 | 97.1 | 97.1 | 97.1 | 97.2 | 97.2 | 97.5 | 97.6 |
| ≥ 200           | 56.6                     | 79.4 | 84.0 | 89.3 | 92.4 | 94.2 | 95.5 | 96.2 | 96.5 | 98.3 | 98.3 | 98.3 | 98.5 | 98.5 | 98.8 | 98.9 |
| ≥ 100           | 56.6                     | 79.4 | 84.1 | 89.3 | 92.4 | 94.2 | 95.6 | 96.5 | 96.7 | 98.5 | 98.8 | 98.8 | 99.0 | 99.0 | 99.3 | 99.4 |
| ≥ 0             | 56.6                     | 79.4 | 84.1 | 89.3 | 92.4 | 94.2 | 95.6 | 96.5 | 96.7 | 98.5 | 98.8 | 98.8 | 99.0 | 99.0 | 99.3 | 99.4 |

TOTAL NUMBER OF OBSERVATIONS 825

LOCAL CLIMATOLOGY BRANCH  
 ETAC  
 WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

1300-0500  
 HOURS (EST)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥.15 | ≥.1  |
| NO CEILING      | 34.1                     | 34.7 | 37.7 | 39.8 | 40.6 | 41.3 | 41.9 | 42.1 | 42.1 | 42.5 | 43.0 | 43.0 | 43.5 | 43.5 | 43.5 | 44.2 |
| ≥ 20000         | 26.1                     | 27.2 | 27.6 | 28.9 | 28.7 | 28.3 | 28.0 | 25.2 | 25.2 | 25.6 | 26.1 | 26.1 | 26.6 | 26.6 | 26.6 | 27.1 |
| ≥ 18000         | 26.1                     | 27.2 | 27.6 | 28.9 | 28.7 | 28.3 | 28.0 | 25.2 | 25.2 | 25.6 | 26.1 | 26.1 | 26.6 | 26.6 | 26.6 | 27.1 |
| ≥ 16000         | 26.1                     | 27.2 | 27.6 | 28.9 | 28.7 | 28.3 | 28.0 | 25.2 | 25.2 | 25.6 | 26.1 | 26.1 | 26.6 | 26.6 | 26.6 | 27.1 |
| ≥ 14000         | 26.1                     | 27.2 | 27.6 | 28.9 | 28.7 | 28.3 | 28.0 | 25.2 | 25.2 | 25.6 | 26.1 | 26.1 | 26.6 | 26.6 | 26.6 | 27.1 |
| ≥ 12000         | 26.1                     | 27.2 | 27.6 | 28.9 | 28.7 | 28.3 | 28.0 | 25.2 | 25.2 | 25.6 | 26.1 | 26.1 | 26.6 | 26.6 | 26.6 | 27.1 |
| ≥ 10000         | 29.2                     | 31.5 | 32.2 | 33.3 | 33.8 | 34.4 | 34.9 | 35.6 | 35.6 | 36.0 | 36.5 | 36.5 | 37.0 | 37.0 | 37.0 | 37.7 |
| ≥ 9000          | 29.2                     | 31.5 | 32.2 | 33.3 | 33.8 | 34.4 | 34.9 | 35.6 | 35.6 | 36.0 | 36.5 | 36.5 | 37.0 | 37.0 | 37.0 | 37.7 |
| ≥ 8000          | 29.2                     | 31.5 | 32.2 | 33.3 | 33.8 | 34.4 | 34.9 | 35.6 | 35.6 | 36.0 | 36.5 | 36.5 | 37.0 | 37.0 | 37.0 | 37.7 |
| ≥ 7000          | 29.2                     | 31.5 | 32.2 | 33.3 | 33.8 | 34.4 | 34.9 | 35.6 | 35.6 | 36.0 | 36.5 | 36.5 | 37.0 | 37.0 | 37.0 | 37.7 |
| ≥ 6000          | 31.2                     | 33.1 | 33.8 | 34.4 | 34.9 | 35.4 | 35.9 | 36.4 | 36.4 | 36.9 | 37.4 | 37.4 | 37.9 | 37.9 | 37.9 | 38.6 |
| ≥ 5000          | 33.4                     | 35.3 | 36.0 | 36.6 | 37.1 | 37.6 | 38.1 | 38.6 | 38.6 | 39.1 | 39.6 | 39.6 | 40.1 | 40.1 | 40.1 | 40.8 |
| ≥ 4500          | 35.3                     | 37.2 | 37.9 | 38.5 | 39.0 | 39.5 | 40.0 | 40.5 | 40.5 | 41.0 | 41.5 | 41.5 | 42.0 | 42.0 | 42.0 | 42.7 |
| ≥ 4000          | 35.3                     | 37.2 | 37.9 | 38.5 | 39.0 | 39.5 | 40.0 | 40.5 | 40.5 | 41.0 | 41.5 | 41.5 | 42.0 | 42.0 | 42.0 | 42.7 |
| ≥ 3500          | 42.1                     | 43.9 | 44.6 | 45.2 | 45.7 | 46.2 | 46.7 | 47.2 | 47.2 | 47.7 | 48.2 | 48.2 | 48.7 | 48.7 | 48.7 | 49.4 |
| ≥ 3000          | 44.1                     | 45.9 | 46.6 | 47.2 | 47.7 | 48.2 | 48.7 | 49.2 | 49.2 | 49.7 | 50.2 | 50.2 | 50.7 | 50.7 | 50.7 | 51.4 |
| ≥ 2500          | 45.3                     | 47.1 | 47.8 | 48.4 | 48.9 | 49.4 | 49.9 | 50.4 | 50.4 | 50.9 | 51.4 | 51.4 | 51.9 | 51.9 | 51.9 | 52.6 |
| ≥ 2000          | 46.4                     | 48.2 | 48.9 | 49.5 | 50.0 | 50.5 | 51.0 | 51.5 | 51.5 | 52.0 | 52.5 | 52.5 | 53.0 | 53.0 | 53.0 | 53.7 |
| ≥ 1800          | 46.9                     | 48.7 | 49.4 | 50.0 | 50.5 | 51.0 | 51.5 | 52.0 | 52.0 | 52.5 | 53.0 | 53.0 | 53.5 | 53.5 | 53.5 | 54.2 |
| ≥ 1600          | 47.3                     | 49.1 | 49.8 | 50.4 | 50.9 | 51.4 | 51.9 | 52.4 | 52.4 | 52.9 | 53.4 | 53.4 | 53.9 | 53.9 | 53.9 | 54.6 |
| ≥ 1400          | 47.8                     | 49.6 | 50.3 | 50.9 | 51.4 | 51.9 | 52.4 | 52.9 | 52.9 | 53.4 | 53.9 | 53.9 | 54.4 | 54.4 | 54.4 | 55.1 |
| ≥ 1200          | 48.3                     | 50.1 | 50.8 | 51.4 | 51.9 | 52.4 | 52.9 | 53.4 | 53.4 | 53.9 | 54.4 | 54.4 | 54.9 | 54.9 | 54.9 | 55.6 |
| ≥ 1000          | 48.3                     | 50.1 | 50.8 | 51.4 | 51.9 | 52.4 | 52.9 | 53.4 | 53.4 | 53.9 | 54.4 | 54.4 | 54.9 | 54.9 | 54.9 | 55.6 |
| ≥ 900           | 48.3                     | 50.1 | 50.8 | 51.4 | 51.9 | 52.4 | 52.9 | 53.4 | 53.4 | 53.9 | 54.4 | 54.4 | 54.9 | 54.9 | 54.9 | 55.6 |
| ≥ 800           | 48.3                     | 50.1 | 50.8 | 51.4 | 51.9 | 52.4 | 52.9 | 53.4 | 53.4 | 53.9 | 54.4 | 54.4 | 54.9 | 54.9 | 54.9 | 55.6 |
| ≥ 700           | 48.5                     | 50.3 | 51.0 | 51.6 | 52.1 | 52.6 | 53.1 | 53.6 | 53.6 | 54.1 | 54.6 | 54.6 | 55.1 | 55.1 | 55.1 | 55.8 |
| ≥ 600           | 48.5                     | 50.3 | 51.0 | 51.6 | 52.1 | 52.6 | 53.1 | 53.6 | 53.6 | 54.1 | 54.6 | 54.6 | 55.1 | 55.1 | 55.1 | 55.8 |
| ≥ 500           | 48.5                     | 50.3 | 51.0 | 51.6 | 52.1 | 52.6 | 53.1 | 53.6 | 53.6 | 54.1 | 54.6 | 54.6 | 55.1 | 55.1 | 55.1 | 55.8 |
| ≥ 400           | 48.5                     | 50.3 | 51.0 | 51.6 | 52.1 | 52.6 | 53.1 | 53.6 | 53.6 | 54.1 | 54.6 | 54.6 | 55.1 | 55.1 | 55.1 | 55.8 |
| ≥ 300           | 48.5                     | 50.3 | 51.0 | 51.6 | 52.1 | 52.6 | 53.1 | 53.6 | 53.6 | 54.1 | 54.6 | 54.6 | 55.1 | 55.1 | 55.1 | 55.8 |
| ≥ 200           | 48.5                     | 50.3 | 51.0 | 51.6 | 52.1 | 52.6 | 53.1 | 53.6 | 53.6 | 54.1 | 54.6 | 54.6 | 55.1 | 55.1 | 55.1 | 55.8 |
| ≥ 100           | 48.5                     | 50.3 | 51.0 | 51.6 | 52.1 | 52.6 | 53.1 | 53.6 | 53.6 | 54.1 | 54.6 | 54.6 | 55.1 | 55.1 | 55.1 | 55.8 |
| ≥ 0             | 48.5                     | 50.3 | 51.0 | 51.6 | 52.1 | 52.6 | 53.1 | 53.6 | 53.6 | 54.1 | 54.6 | 54.6 | 55.1 | 55.1 | 55.1 | 55.8 |

TOTAL NUMBER OF OBSERVATIONS 812

FEDERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
DUNGSTOWN MAP OH

73-81

OCT

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

670-0600  
HOURS 151

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥0    |
| NO CEILING      | 18.4                     | 26.6 | 24.8 | 33.0 | 34.7 | 35.9 | 37.1 | 37.7 | 37.7 | 38.0 | 38.5 | 38.5 | 38.5 | 39.3 | 39.3 | 40.7  |
| ≥ 20000         | 19.5                     | 23.8 | 31.1 | 35.4 | 37.4 | 38.7 | 40.3 | 40.9 | 40.9 | 41.1 | 41.6 | 41.6 | 42.6 | 42.6 | 43.7 | 43.3  |
| ≥ 18000         | 19.5                     | 23.8 | 31.1 | 35.6 | 37.6 | 39.0 | 40.5 | 41.1 | 41.1 | 41.4 | 41.9 | 41.9 | 42.8 | 42.8 | 43.2 | 43.6  |
| ≥ 16000         | 19.5                     | 26.8 | 31.1 | 35.7 | 37.7 | 39.1 | 40.7 | 41.3 | 41.3 | 41.5 | 42.0 | 42.0 | 43.0 | 43.0 | 43.3 | 43.7  |
| ≥ 14000         | 19.7                     | 29.1 | 31.4 | 36.0 | 38.1 | 39.4 | 41.0 | 41.6 | 41.6 | 41.9 | 42.4 | 42.4 | 43.3 | 43.3 | 43.7 | 44.1  |
| ≥ 12000         | 21.4                     | 31.1 | 33.4 | 38.1 | 40.3 | 41.6 | 43.2 | 43.8 | 43.8 | 44.1 | 44.5 | 44.5 | 45.5 | 45.5 | 45.9 | 46.2  |
| ≥ 10000         | 23.2                     | 33.5 | 36.3 | 41.3 | 43.4 | 44.8 | 46.4 | 47.0 | 47.0 | 47.2 | 47.7 | 47.7 | 48.7 | 48.7 | 49.0 | 49.4  |
| ≥ 9000          | 23.3                     | 33.7 | 36.5 | 41.5 | 43.7 | 45.0 | 46.6 | 47.2 | 47.2 | 47.5 | 47.9 | 47.9 | 48.9 | 48.9 | 49.3 | 49.6  |
| ≥ 8000          | 24.4                     | 35.2 | 38.0 | 43.1 | 45.3 | 47.0 | 48.7 | 49.3 | 49.3 | 49.5 | 50.0 | 50.0 | 51.0 | 51.0 | 51.3 | 51.7  |
| ≥ 7000          | 24.7                     | 36.0 | 39.0 | 44.1 | 46.2 | 47.9 | 49.6 | 50.2 | 50.2 | 50.5 | 51.0 | 51.0 | 51.9 | 51.9 | 52.3 | 52.7  |
| ≥ 6000          | 25.5                     | 37.4 | 40.4 | 45.6 | 47.9 | 49.6 | 51.5 | 52.1 | 52.1 | 52.3 | 52.8 | 52.8 | 53.8 | 53.8 | 54.1 | 54.5  |
| ≥ 5000          | 26.3                     | 40.4 | 43.7 | 49.0 | 51.6 | 53.3 | 55.2 | 55.8 | 55.8 | 56.1 | 56.6 | 56.6 | 57.5 | 57.5 | 57.9 | 58.3  |
| ≥ 4500          | 29.9                     | 42.1 | 45.5 | 51.0 | 53.5 | 55.5 | 57.4 | 58.1 | 58.1 | 58.4 | 58.9 | 58.9 | 59.8 | 59.8 | 60.6 | 60.6  |
| ≥ 4000          | 31.5                     | 44.7 | 48.2 | 53.6 | 56.2 | 58.4 | 60.3 | 61.0 | 61.0 | 61.3 | 61.9 | 61.9 | 62.9 | 62.9 | 63.2 | 63.6  |
| ≥ 3500          | 34.2                     | 47.6 | 51.1 | 56.7 | 59.2 | 61.4 | 63.3 | 64.2 | 64.2 | 64.4 | 65.0 | 65.0 | 66.0 | 66.0 | 66.7 | 66.7  |
| ≥ 3000          | 37.1                     | 51.7 | 55.5 | 61.0 | 63.6 | 65.9 | 68.7 | 68.8 | 68.8 | 69.1 | 69.7 | 69.7 | 70.6 | 70.6 | 71.0 | 71.4  |
| ≥ 2500          | 39.6                     | 55.0 | 58.7 | 64.3 | 67.1 | 69.5 | 71.8 | 73.1 | 73.1 | 73.5 | 74.2 | 74.2 | 75.1 | 75.1 | 75.5 | 75.8  |
| ≥ 2000          | 40.4                     | 56.8 | 60.6 | 66.3 | 69.1 | 71.6 | 74.2 | 75.4 | 75.4 | 75.8 | 76.5 | 76.5 | 77.4 | 77.4 | 77.8 | 78.2  |
| ≥ 1800          | 40.9                     | 58.3 | 62.1 | 67.8 | 70.6 | 73.2 | 75.7 | 77.1 | 77.1 | 77.5 | 78.2 | 78.2 | 79.1 | 79.1 | 79.5 | 79.9  |
| ≥ 1500          | 41.4                     | 59.2 | 63.5 | 69.2 | 72.0 | 74.8 | 77.3 | 78.6 | 78.8 | 79.2 | 79.9 | 79.9 | 80.8 | 80.8 | 81.2 | 81.6  |
| ≥ 1200          | 41.7                     | 60.2 | 64.4 | 70.6 | 73.4 | 76.3 | 79.1 | 80.6 | 80.7 | 81.2 | 81.8 | 81.8 | 82.8 | 82.8 | 83.1 | 83.5  |
| ≥ 1000          | 42.5                     | 61.7 | 65.9 | 72.1 | 75.0 | 77.9 | 80.9 | 82.5 | 82.6 | 83.1 | 83.7 | 83.7 | 84.7 | 84.7 | 85.1 | 85.4  |
| ≥ 900           | 42.7                     | 61.9 | 66.7 | 73.1 | 76.0 | 79.0 | 82.3 | 83.9 | 84.0 | 84.5 | 85.1 | 85.1 | 86.0 | 86.0 | 86.4 | 86.8  |
| ≥ 800           | 43.3                     | 62.5 | 67.5 | 73.8 | 76.7 | 79.9 | 83.1 | 84.7 | 84.8 | 85.3 | 86.0 | 86.0 | 87.0 | 87.0 | 87.4 | 87.7  |
| ≥ 700           | 43.1                     | 63.2 | 69.4 | 74.9 | 77.9 | 81.1 | 84.5 | 86.0 | 86.2 | 86.7 | 87.4 | 87.4 | 88.3 | 88.3 | 88.7 | 89.1  |
| ≥ 600           | 43.2                     | 63.5 | 66.7 | 75.1 | 78.3 | 81.8 | 85.3 | 87.1 | 87.3 | 87.9 | 88.6 | 88.6 | 89.6 | 89.6 | 89.9 | 90.3  |
| ≥ 500           | 43.2                     | 63.6 | 68.8 | 75.6 | 78.9 | 83.0 | 86.9 | 89.0 | 89.1 | 89.7 | 90.5 | 90.5 | 91.5 | 91.5 | 92.0 | 92.4  |
| ≥ 400           | 43.2                     | 63.6 | 68.9 | 76.0 | 79.6 | 84.0 | 88.1 | 90.5 | 90.7 | 91.4 | 92.4 | 92.4 | 93.3 | 93.3 | 93.8 | 94.2  |
| ≥ 300           | 43.2                     | 63.6 | 69.1 | 76.2 | 79.9 | 84.3 | 88.6 | 91.4 | 91.5 | 93.0 | 94.2 | 94.2 | 95.3 | 95.3 | 95.8 | 96.1  |
| ≥ 200           | 43.2                     | 63.6 | 69.1 | 76.3 | 80.2 | 84.8 | 89.2 | 92.4 | 92.5 | 94.5 | 95.9 | 95.9 | 97.1 | 97.1 | 97.8 | 98.2  |
| ≥ 100           | 43.2                     | 63.6 | 69.1 | 76.3 | 80.2 | 84.8 | 89.2 | 92.6 | 92.7 | 94.8 | 96.1 | 96.1 | 97.3 | 97.3 | 98.1 | 98.7  |
| ≥ 0             | 43.2                     | 63.6 | 69.1 | 76.3 | 80.2 | 84.8 | 89.2 | 92.6 | 92.7 | 94.8 | 96.1 | 96.1 | 97.5 | 97.5 | 98.3 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 824

USAF ETAC FORM 0-14-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

ALBUQUERQUE CLIMATOLOGY BRANCH  
AFM/TAC  
1. WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
YOUNGSTOWN MAP OH

73-81

CCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1900-1100  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |       |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼  | ≥ 1/8 | ≥ 0  | ≥ 0   |
| NO CEILING      | 22.1                       | 31.0 | 33.1 | 35.2 | 36.8 | 38.0 | 38.4 | 36.6 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9  | 38.9 | 38.9  |
| ≥ 20000         | 24.2                       | 34.3 | 36.9 | 39.8 | 41.7 | 42.9 | 43.2 | 43.5 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7  | 43.7 | 43.7  |
| IV 18000        | 24.5                       | 34.7 | 37.3 | 41.3 | 42.1 | 43.4 | 43.7 | 44.0 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2  | 44.2 | 44.2  |
| IV 16000        | 24.5                       | 34.7 | 37.3 | 41.3 | 42.1 | 43.4 | 43.7 | 44.0 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2  | 44.2 | 44.2  |
| IV 14000        | 25.1                       | 35.3 | 37.9 | 41.9 | 42.9 | 44.1 | 44.5 | 44.7 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9 | 44.9  | 44.9 | 44.9  |
| IV 12000        | 25.2                       | 36.8 | 39.7 | 42.8 | 44.8 | 46.0 | 46.4 | 46.7 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9  | 46.9 | 46.9  |
| IV 10000        | 27.0                       | 38.9 | 42.3 | 45.3 | 47.5 | 48.7 | 49.1 | 49.3 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6 | 49.6  | 49.6 | 49.6  |
| IV 9000         | 27.2                       | 39.1 | 42.5 | 45.6 | 47.7 | 49.0 | 49.3 | 49.6 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8  | 49.8 | 49.8  |
| IV 8000         | 28.0                       | 41.3 | 44.8 | 48.1 | 50.3 | 51.9 | 52.3 | 52.5 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7  | 52.7 | 52.7  |
| IV 7000         | 29.1                       | 41.9 | 45.7 | 49.0 | 51.2 | 52.7 | 53.1 | 53.3 | 53.6 | 53.6 | 53.6 | 53.6 | 53.6 | 53.6  | 53.6 | 53.6  |
| IV 6000         | 29.4                       | 42.4 | 46.3 | 49.6 | 52.0 | 53.7 | 54.1 | 54.3 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6 | 54.6  | 54.6 | 54.6  |
| IV 5000         | 31.9                       | 44.8 | 48.8 | 52.4 | 54.8 | 56.6 | 57.1 | 57.4 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6 | 57.6  | 57.6 | 57.6  |
| IV 4500         | 32.0                       | 45.2 | 51.2 | 53.8 | 56.3 | 58.5 | 59.2 | 59.4 | 59.7 | 59.7 | 59.7 | 59.7 | 59.7 | 59.7  | 59.7 | 59.7  |
| IV 4000         | 33.5                       | 47.6 | 51.8 | 55.5 | 58.0 | 60.2 | 60.9 | 61.3 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5 | 61.5  | 61.5 | 61.5  |
| IV 3500         | 36.1                       | 51.8 | 55.1 | 58.8 | 61.3 | 63.6 | 64.3 | 64.7 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9 | 64.9  | 64.9 | 64.9  |
| IV 3000         | 39.6                       | 55.5 | 59.8 | 63.7 | 66.1 | 68.6 | 69.4 | 69.8 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0 | 70.0  | 70.0 | 70.0  |
| IV 2500         | 43.2                       | 57.8 | 64.1 | 68.1 | 70.5 | 73.0 | 74.1 | 74.4 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7 | 74.7  | 74.7 | 74.7  |
| IV 2000         | 45.9                       | 63.8 | 68.1 | 72.1 | 74.5 | 77.1 | 78.2 | 78.6 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8 | 78.8  | 78.8 | 78.8  |
| IV 1800         | 46.9                       | 65.4 | 69.9 | 74.2 | 76.6 | 79.4 | 80.9 | 81.2 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5 | 81.5  | 81.5 | 81.5  |
| IV 1500         | 47.9                       | 66.7 | 71.3 | 75.5 | 78.0 | 80.8 | 82.2 | 82.6 | 82.8 | 82.9 | 82.9 | 82.9 | 82.9 | 82.9  | 82.9 | 82.9  |
| IV 1200         | 48.3                       | 68.9 | 73.6 | 78.3 | 80.9 | 84.0 | 85.7 | 86.2 | 86.5 | 86.7 | 86.7 | 86.7 | 86.7 | 86.7  | 86.7 | 86.7  |
| IV 1000         | 48.8                       | 69.4 | 74.3 | 79.0 | 81.7 | 85.4 | 87.3 | 87.8 | 88.1 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3  | 88.3 | 88.3  |
| IV 900          | 49.3                       | 69.9 | 74.9 | 79.8 | 82.6 | 86.4 | 88.3 | 88.8 | 89.2 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4  | 89.4 | 89.4  |
| IV 800          | 49.5                       | 71.3 | 75.3 | 80.3 | 83.3 | 87.5 | 89.4 | 89.9 | 90.3 | 90.6 | 90.6 | 90.6 | 90.6 | 90.6  | 90.6 | 90.6  |
| IV 700          | 49.5                       | 71.9 | 76.7 | 81.0 | 84.4 | 88.9 | 90.9 | 91.6 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7  | 92.7 | 92.7  |
| IV 600          | 49.6                       | 71.1 | 76.4 | 81.5 | 85.1 | 89.8 | 92.3 | 93.4 | 93.8 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3  |
| IV 500          | 49.8                       | 71.9 | 77.1 | 82.3 | 86.6 | 91.6 | 94.5 | 95.7 | 96.1 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6  | 96.6 | 96.6  |
| IV 400          | 49.8                       | 72.1 | 77.3 | 82.7 | 87.0 | 92.0 | 95.0 | 96.7 | 97.1 | 97.8 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1  |
| IV 300          | 49.9                       | 72.1 | 77.3 | 82.7 | 87.2 | 92.3 | 95.4 | 97.3 | 97.7 | 98.4 | 98.8 | 98.8 | 98.8 | 98.8  | 98.8 | 98.8  |
| IV 200          | 49.8                       | 72.1 | 77.3 | 82.7 | 87.2 | 92.3 | 95.4 | 97.3 | 97.7 | 98.4 | 98.9 | 99.0 | 99.1 | 99.3  | 99.3 | 99.3  |
| IV 100          | 49.9                       | 72.1 | 77.3 | 82.7 | 87.2 | 92.3 | 95.4 | 97.3 | 97.7 | 98.4 | 99.0 | 99.1 | 99.3 | 99.4  | 99.5 | 99.6  |
| IV 0            | 49.8                       | 72.1 | 77.3 | 82.7 | 87.2 | 92.3 | 95.4 | 97.3 | 97.7 | 98.4 | 99.0 | 99.1 | 99.3 | 99.4  | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 821

7  
FEDERAL CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |      |       |        |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|-------|------|-------|--------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥0.5 | ≥0.25 | ≥0.15 | ≥0.1 | ≥0.05 | ≥0.025 | ≥0   |
| NO CEILING      | 24.4                     | 31.4 | 32.6 | 33.5 | 34.1 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7  | 34.7  | 34.7 | 34.7  | 34.7   | 34.7 |
| ≥ 20000         | 24.7                     | 36.8 | 38.3 | 39.3 | 39.9 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5  | 40.5  | 40.5 | 40.5  | 40.5   | 40.5 |
| ≥ 18000         | 26.9                     | 37.7 | 38.4 | 39.4 | 40.0 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6  | 40.6  | 40.6 | 40.6  | 40.6   | 40.6 |
| ≥ 16000         | 26.9                     | 37.7 | 38.4 | 39.4 | 40.0 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6  | 40.6  | 40.6 | 40.6  | 40.6   | 40.6 |
| ≥ 14000         | 29.5                     | 37.7 | 39.1 | 40.1 | 40.7 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3 | 41.3  | 41.3  | 41.3 | 41.3  | 41.3   | 41.3 |
| ≥ 12000         | 31.0                     | 39.6 | 41.1 | 42.0 | 42.6 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2 | 43.2  | 43.2  | 43.2 | 43.2  | 43.2   | 43.2 |
| ≥ 10000         | 32.1                     | 40.3 | 42.3 | 43.4 | 44.0 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6  | 44.6  | 44.6 | 44.6  | 44.6   | 44.6 |
| ≥ 9000          | 32.5                     | 42.0 | 43.5 | 44.6 | 45.2 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8 | 45.8  | 45.8  | 45.8 | 45.8  | 45.8   | 45.8 |
| ≥ 8000          | 33.3                     | 43.4 | 44.9 | 46.6 | 47.2 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8  | 47.8  | 47.8 | 47.8  | 47.8   | 47.8 |
| ≥ 7000          | 33.7                     | 43.7 | 45.3 | 47.0 | 47.7 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3  | 48.3  | 48.3 | 48.3  | 48.3   | 48.3 |
| ≥ 6000          | 33.9                     | 44.4 | 46.0 | 47.7 | 48.4 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0  | 49.0  | 49.0 | 49.0  | 49.0   | 49.0 |
| ≥ 5000          | 36.7                     | 47.8 | 49.6 | 51.7 | 52.5 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3 | 53.3  | 53.3  | 53.3 | 53.3  | 53.3   | 53.3 |
| ≥ 4500          | 38.4                     | 49.8 | 51.6 | 53.6 | 54.5 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3 | 55.3  | 55.3  | 55.3 | 55.3  | 55.3   | 55.3 |
| ≥ 4000          | 42.3                     | 54.1 | 56.8 | 58.1 | 58.9 | 59.8 | 59.9 | 59.9 | 59.9 | 59.9 | 59.9  | 59.9  | 59.9 | 59.9  | 59.9   | 59.9 |
| ≥ 3500          | 47.3                     | 60.5 | 62.4 | 64.5 | 65.3 | 66.3 | 66.4 | 66.4 | 66.4 | 66.4 | 66.4  | 66.4  | 66.4 | 66.4  | 66.4   | 66.4 |
| ≥ 3000          | 51.7                     | 65.8 | 63.5 | 70.8 | 71.6 | 72.8 | 72.9 | 72.9 | 72.9 | 72.9 | 72.9  | 72.9  | 72.9 | 72.9  | 72.9   | 72.9 |
| ≥ 2500          | 56.5                     | 71.9 | 74.5 | 77.3 | 78.1 | 79.6 | 79.8 | 79.8 | 79.8 | 79.8 | 79.8  | 79.8  | 79.8 | 79.8  | 79.8   | 79.8 |
| ≥ 2000          | 60.3                     | 77.9 | 81.8 | 83.6 | 84.4 | 85.9 | 86.2 | 86.2 | 86.2 | 86.4 | 86.4  | 86.4  | 86.4 | 86.4  | 86.4   | 86.4 |
| ≥ 1800          | 61.1                     | 79.5 | 82.6 | 85.6 | 86.5 | 87.9 | 88.3 | 88.3 | 88.3 | 88.5 | 88.5  | 88.5  | 88.5 | 88.5  | 88.5   | 88.5 |
| ≥ 1500          | 62.4                     | 81.5 | 84.8 | 88.0 | 88.9 | 90.6 | 90.9 | 91.1 | 91.1 | 91.3 | 91.3  | 91.3  | 91.3 | 91.3  | 91.3   | 91.3 |
| ≥ 1200          | 63.2                     | 82.9 | 86.2 | 89.5 | 90.6 | 92.3 | 92.6 | 92.8 | 92.8 | 93.1 | 93.1  | 93.1  | 93.1 | 93.1  | 93.1   | 93.1 |
| ≥ 1000          | 63.5                     | 83.7 | 87.3 | 90.9 | 92.3 | 94.1 | 94.4 | 94.8 | 94.8 | 95.2 | 95.2  | 95.2  | 95.2 | 95.2  | 95.2   | 95.2 |
| ≥ 900           | 63.5                     | 84.4 | 88.0 | 91.8 | 93.1 | 94.9 | 95.3 | 95.7 | 95.7 | 96.0 | 96.0  | 96.0  | 96.0 | 96.0  | 96.0   | 96.0 |
| ≥ 800           | 63.6                     | 84.5 | 88.2 | 91.9 | 93.2 | 95.2 | 95.5 | 96.0 | 96.0 | 96.4 | 96.4  | 96.4  | 96.4 | 96.4  | 96.4   | 96.4 |
| ≥ 700           | 63.6                     | 84.7 | 88.3 | 92.0 | 93.4 | 95.5 | 96.0 | 96.5 | 96.5 | 96.9 | 96.9  | 96.9  | 96.9 | 96.9  | 96.9   | 96.9 |
| ≥ 600           | 63.8                     | 84.3 | 88.4 | 92.3 | 93.6 | 95.8 | 96.9 | 97.5 | 97.5 | 97.8 | 97.8  | 97.8  | 97.8 | 97.8  | 97.8   | 97.8 |
| ≥ 500           | 63.9                     | 85.0 | 88.8 | 92.8 | 94.3 | 96.7 | 97.8 | 98.6 | 98.6 | 98.9 | 98.9  | 98.9  | 98.9 | 98.9  | 98.9   | 98.9 |
| ≥ 400           | 63.9                     | 85.0 | 88.8 | 92.8 | 94.4 | 96.9 | 98.2 | 98.9 | 98.9 | 99.3 | 99.3  | 99.3  | 99.3 | 99.3  | 99.3   | 99.3 |
| ≥ 300           | 63.9                     | 85.0 | 88.8 | 92.8 | 94.4 | 96.9 | 98.2 | 98.9 | 98.9 | 99.5 | 99.6  | 99.6  | 99.6 | 99.6  | 99.6   | 99.6 |
| ≥ 200           | 63.9                     | 85.0 | 88.8 | 92.8 | 94.6 | 97.0 | 98.3 | 99.2 | 99.2 | 99.8 | 99.9  | 99.9  | 99.9 | 99.9  | 99.9   | 99.9 |
| ≥ 100           | 63.9                     | 85.0 | 88.8 | 92.8 | 94.6 | 97.0 | 98.3 | 99.2 | 99.2 | 99.8 | 99.9  | 99.9  | 99.9 | 99.9  | 99.9   | 99.9 |
| ≥ 0             | 63.9                     | 85.0 | 88.8 | 92.8 | 94.6 | 97.0 | 98.3 | 99.2 | 99.2 | 99.8 | 99.9  | 99.9  | 99.9 | 99.9  | 99.9   | 99.9 |

TOTAL NUMBER OF OBSERVATIONS 828

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

NO 25  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

OCT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.5   | ≥.4   | ≥.3   | ≥.25  | ≥.2   | ≥.1   |
| NO CEILING      | 25.7                     | 31.8 | 32.4 | 33.1 | 33.5 | 34.2 | 34.4 | 34.4 | 34.4 | 34.4 | 34.4  | 34.4  | 34.4  | 34.4  | 34.4  | 34.4  |
| ≥ 20000         | 32.0                     | 37.2 | 40.3 | 40.8 | 41.2 | 41.9 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1  | 42.1  | 42.1  | 42.1  | 42.1  | 42.1  |
| IV 18000        | 32.0                     | 37.2 | 40.3 | 40.8 | 41.2 | 41.9 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1  | 42.1  | 42.1  | 42.1  | 42.1  | 42.1  |
| IV 16000        | 32.0                     | 37.2 | 40.3 | 40.8 | 41.2 | 41.9 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1  | 42.1  | 42.1  | 42.1  | 42.1  | 42.1  |
| IV 14000        | 32.4                     | 39.6 | 41.7 | 41.2 | 41.6 | 42.3 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4  | 42.4  | 42.4  | 42.4  | 42.4  | 42.4  |
| IV 12000        | 34.0                     | 41.7 | 42.8 | 43.3 | 43.6 | 44.4 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5  | 44.5  | 44.5  | 44.5  | 44.5  | 44.5  |
| IV 10000        | 36.1                     | 44.4 | 45.5 | 46.1 | 46.6 | 47.3 | 47.4 | 47.4 | 47.4 | 47.4 | 47.4  | 47.4  | 47.4  | 47.4  | 47.4  | 47.4  |
| IV 9000         | 36.4                     | 44.9 | 46.0 | 46.6 | 47.1 | 47.8 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9  | 47.9  | 47.9  | 47.9  | 47.9  | 47.9  |
| IV 8000         | 37.8                     | 46.5 | 47.6 | 48.4 | 48.9 | 49.6 | 49.8 | 49.8 | 49.8 | 49.8 | 49.8  | 49.8  | 49.8  | 49.8  | 49.8  | 49.8  |
| IV 7000         | 38.9                     | 47.8 | 48.9 | 49.9 | 50.4 | 51.1 | 51.2 | 51.2 | 51.2 | 51.2 | 51.2  | 51.2  | 51.2  | 51.2  | 51.2  | 51.2  |
| IV 6000         | 39.7                     | 49.0 | 50.1 | 51.1 | 51.6 | 52.3 | 52.4 | 52.4 | 52.4 | 52.4 | 52.4  | 52.4  | 52.4  | 52.4  | 52.4  | 52.4  |
| IV 5000         | 44.0                     | 54.3 | 55.5 | 56.5 | 57.0 | 57.7 | 57.8 | 58.2 | 58.2 | 58.2 | 58.2  | 58.2  | 58.2  | 58.2  | 58.2  | 58.2  |
| IV 4500         | 47.8                     | 58.4 | 59.7 | 60.6 | 61.1 | 62.1 | 62.2 | 62.6 | 62.6 | 62.6 | 62.6  | 62.6  | 62.6  | 62.6  | 62.6  | 62.6  |
| IV 4000         | 55.0                     | 65.8 | 67.2 | 68.2 | 68.7 | 69.7 | 70.0 | 70.4 | 70.4 | 70.4 | 70.4  | 70.4  | 70.4  | 70.4  | 70.4  | 70.4  |
| IV 3500         | 58.1                     | 69.7 | 71.1 | 72.1 | 72.6 | 73.6 | 74.0 | 74.3 | 74.3 | 74.3 | 74.3  | 74.3  | 74.3  | 74.3  | 74.3  | 74.3  |
| IV 3000         | 61.2                     | 74.4 | 76.3 | 77.4 | 77.9 | 78.9 | 79.3 | 79.7 | 79.7 | 79.7 | 79.7  | 79.7  | 79.7  | 79.7  | 79.7  | 79.7  |
| IV 2500         | 65.5                     | 79.0 | 81.2 | 82.5 | 83.0 | 84.1 | 84.7 | 85.1 | 85.1 | 85.1 | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  | 85.1  |
| IV 2000         | 68.7                     | 83.0 | 85.5 | 86.8 | 87.3 | 88.4 | 89.1 | 89.5 | 89.5 | 89.5 | 89.6  | 89.6  | 89.6  | 89.6  | 89.6  | 89.6  |
| IV 1800         | 69.4                     | 84.4 | 87.2 | 88.5 | 89.0 | 90.3 | 91.1 | 91.4 | 91.4 | 91.6 | 91.6  | 91.6  | 91.6  | 91.6  | 91.6  | 91.6  |
| IV 1500         | 71.0                     | 85.3 | 88.1 | 89.5 | 90.0 | 91.4 | 92.2 | 92.5 | 92.5 | 92.7 | 92.7  | 92.7  | 92.7  | 92.7  | 92.7  | 92.7  |
| IV 1200         | 71.4                     | 86.6 | 89.4 | 90.8 | 91.6 | 93.0 | 94.1 | 94.5 | 94.5 | 94.6 | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  | 94.6  |
| IV 1000         | 70.4                     | 86.7 | 89.5 | 91.2 | 92.1 | 93.8 | 94.9 | 95.2 | 95.2 | 95.4 | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  |
| IV 900          | 70.4                     | 86.7 | 89.5 | 91.2 | 92.1 | 93.8 | 94.9 | 95.2 | 95.2 | 95.4 | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  | 95.4  |
| IV 800          | 70.4                     | 86.9 | 89.7 | 91.4 | 92.3 | 94.1 | 95.4 | 95.7 | 95.7 | 95.8 | 95.8  | 95.8  | 95.8  | 95.8  | 95.8  | 95.8  |
| IV 700          | 70.5                     | 87.2 | 90.2 | 91.9 | 92.8 | 94.9 | 96.5 | 96.8 | 96.8 | 96.9 | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  | 96.9  |
| IV 600          | 70.5                     | 87.2 | 90.2 | 92.1 | 92.9 | 95.1 | 96.9 | 97.7 | 97.7 | 97.8 | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  | 97.8  |
| IV 500          | 70.7                     | 87.5 | 90.6 | 92.4 | 93.4 | 95.6 | 97.6 | 98.3 | 98.3 | 98.4 | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  | 98.4  |
| IV 400          | 70.7                     | 87.5 | 90.6 | 92.4 | 93.5 | 96.0 | 98.0 | 99.0 | 99.0 | 99.1 | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  | 99.1  |
| IV 300          | 70.7                     | 87.5 | 90.6 | 92.4 | 93.5 | 96.1 | 98.3 | 99.4 | 99.4 | 99.6 | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  | 99.6  |
| IV 200          | 70.7                     | 87.5 | 90.6 | 92.4 | 93.5 | 96.2 | 98.4 | 99.5 | 99.5 | 99.9 | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  | 99.9  |
| IV 100          | 70.7                     | 87.5 | 91.6 | 92.4 | 93.5 | 96.2 | 98.4 | 99.5 | 99.5 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| IV 0            | 70.7                     | 87.5 | 91.6 | 92.4 | 93.5 | 96.2 | 98.4 | 99.5 | 99.5 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 816



FEDERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

OCT

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1800-2000  
HOURS (ST)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |       |      |       |       |      |      |      |      |       |      |       |
|-----------------|--------------------------|------|------|------|------|-------|------|-------|-------|------|------|------|------|-------|------|-------|
|                 | ≥ 10                     | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .5 | ≥ .4 | ≥ .3 | ≥ .25 | ≥ .2 | ≥ 0   |
| NO CEILING      | 31.7                     | 39.8 | 39.8 | 40.4 | 47.8 | 41.0  | 41.3 | 41.4  | 41.4  | 41.4 | 41.4 | 41.4 | 41.4 | 41.4  | 41.4 | 41.4  |
| ≥ 20000         | 37.1                     | 46.9 | 47.9 | 48.7 | 49.1 | 49.7  | 49.9 | 50.1  | 50.1  | 50.1 | 50.1 | 50.1 | 50.1 | 50.1  | 50.1 | 50.1  |
| ≥ 18000         | 37.1                     | 46.9 | 47.9 | 48.7 | 49.1 | 49.7  | 49.9 | 50.1  | 50.1  | 50.1 | 50.1 | 50.1 | 50.1 | 50.1  | 50.1 | 50.1  |
| ≥ 16000         | 37.1                     | 46.9 | 47.9 | 48.7 | 49.1 | 49.7  | 49.9 | 50.1  | 50.1  | 50.1 | 50.1 | 50.1 | 50.1 | 50.1  | 50.1 | 50.1  |
| ≥ 14000         | 37.1                     | 46.9 | 47.9 | 48.7 | 49.1 | 49.7  | 49.9 | 50.1  | 50.1  | 50.1 | 50.1 | 50.1 | 50.1 | 50.1  | 50.1 | 50.1  |
| ≥ 12000         | 38.2                     | 49.2 | 49.2 | 50.1 | 50.4 | 51.0  | 51.3 | 51.4  | 51.4  | 51.4 | 51.4 | 51.4 | 51.4 | 51.4  | 51.4 | 51.4  |
| ≥ 10000         | 40.0                     | 51.2 | 52.1 | 53.0 | 53.4 | 54.0  | 54.2 | 54.3  | 54.3  | 54.3 | 54.3 | 54.3 | 54.3 | 54.3  | 54.3 | 54.3  |
| ≥ 9000          | 40.7                     | 52.3 | 53.2 | 54.1 | 54.5 | 55.1  | 55.3 | 55.4  | 55.4  | 55.4 | 55.4 | 55.4 | 55.4 | 55.4  | 55.4 | 55.4  |
| ≥ 8000          | 41.2                     | 53.5 | 54.6 | 55.4 | 55.8 | 56.4  | 56.7 | 56.8  | 56.8  | 56.8 | 56.8 | 56.8 | 56.8 | 56.8  | 56.8 | 56.8  |
| ≥ 7000          | 43.1                     | 54.9 | 56.2 | 57.3 | 57.6 | 58.2  | 58.5 | 58.6  | 58.6  | 58.6 | 58.6 | 58.6 | 58.6 | 58.6  | 58.6 | 58.6  |
| ≥ 6000          | 44.1                     | 56.4 | 57.6 | 58.9 | 59.2 | 59.8  | 60.1 | 60.2  | 60.2  | 60.2 | 60.2 | 60.2 | 60.2 | 60.2  | 60.2 | 60.2  |
| ≥ 5000          | 49.7                     | 62.6 | 64.1 | 65.2 | 65.6 | 66.2  | 66.4 | 66.5  | 66.5  | 66.5 | 66.5 | 66.5 | 66.5 | 66.5  | 66.5 | 66.5  |
| ≥ 4500          | 52.9                     | 66.5 | 68.1 | 69.6 | 70.3 | 70.9  | 71.2 | 71.3  | 71.3  | 71.3 | 71.3 | 71.3 | 71.3 | 71.3  | 71.3 | 71.3  |
| ≥ 4000          | 56.5                     | 71.1 | 72.6 | 74.2 | 75.0 | 75.6  | 75.8 | 75.9  | 75.9  | 75.9 | 75.9 | 75.9 | 75.9 | 75.9  | 75.9 | 75.9  |
| ≥ 3500          | 57.9                     | 73.1 | 74.8 | 76.6 | 77.3 | 78.0  | 78.3 | 78.5  | 78.5  | 78.5 | 78.5 | 78.5 | 78.5 | 78.5  | 78.5 | 78.5  |
| ≥ 3000          | 60.4                     | 76.9 | 78.8 | 80.5 | 81.3 | 82.3  | 82.5 | 82.8  | 82.8  | 82.8 | 82.8 | 82.8 | 82.8 | 82.8  | 82.8 | 82.8  |
| ≥ 2500          | 62.0                     | 80.3 | 82.2 | 84.0 | 84.9 | 85.8  | 86.1 | 86.3  | 86.3  | 86.3 | 86.3 | 86.3 | 86.3 | 86.3  | 86.3 | 86.3  |
| ≥ 2000          | 64.2                     | 83.5 | 85.6 | 87.4 | 88.3 | 89.3  | 89.5 | 89.7  | 89.7  | 89.7 | 89.7 | 89.7 | 89.7 | 89.7  | 89.7 | 89.9  |
| ≥ 1800          | 65.0                     | 84.6 | 86.7 | 88.5 | 89.4 | 90.4  | 90.6 | 90.8  | 90.8  | 90.8 | 90.8 | 90.8 | 90.8 | 90.8  | 90.8 | 91.0  |
| ≥ 1500          | 65.1                     | 84.9 | 87.1 | 89.0 | 89.9 | 90.8  | 91.1 | 91.3  | 91.3  | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  | 91.3 | 91.5  |
| ≥ 1200          | 65.7                     | 85.8 | 88.1 | 90.2 | 91.2 | 92.2  | 92.4 | 93.0  | 93.0  | 93.0 | 93.0 | 93.0 | 93.0 | 93.0  | 93.0 | 93.2  |
| ≥ 1000          | 66.1                     | 86.9 | 89.4 | 91.6 | 92.7 | 93.9  | 94.3 | 94.9  | 94.9  | 94.9 | 94.9 | 94.9 | 94.9 | 94.9  | 94.9 | 95.0  |
| ≥ 900           | 66.1                     | 86.9 | 89.4 | 91.6 | 92.8 | 94.0  | 94.4 | 95.0  | 95.0  | 95.0 | 95.0 | 95.0 | 95.0 | 95.0  | 95.0 | 95.1  |
| ≥ 800           | 66.1                     | 86.9 | 89.4 | 91.9 | 93.3 | 94.5  | 94.9 | 95.5  | 95.5  | 95.5 | 95.5 | 95.5 | 95.5 | 95.5  | 95.5 | 95.6  |
| ≥ 700           | 66.1                     | 87.3 | 89.7 | 92.4 | 93.9 | 95.2  | 95.6 | 96.2  | 96.2  | 96.3 | 96.3 | 96.3 | 96.3 | 96.3  | 96.3 | 96.5  |
| ≥ 600           | 66.1                     | 87.3 | 89.7 | 92.6 | 94.0 | 95.4  | 96.0 | 96.8  | 96.8  | 96.9 | 96.9 | 96.9 | 96.9 | 96.9  | 96.9 | 97.1  |
| ≥ 500           | 66.1                     | 87.4 | 89.9 | 92.3 | 94.5 | 95.8  | 96.6 | 97.6  | 97.6  | 97.7 | 97.7 | 97.7 | 97.7 | 97.7  | 97.7 | 97.8  |
| ≥ 400           | 66.1                     | 87.4 | 90.1 | 93.0 | 94.7 | 96.6  | 97.3 | 98.5  | 98.5  | 98.8 | 98.8 | 98.8 | 98.8 | 98.8  | 98.8 | 98.9  |
| ≥ 300           | 66.1                     | 87.4 | 90.1 | 93.0 | 94.9 | 96.8  | 97.6 | 98.9  | 98.9  | 99.1 | 99.1 | 99.1 | 99.1 | 99.1  | 99.1 | 99.3  |
| ≥ 200           | 66.1                     | 87.4 | 90.1 | 93.0 | 94.9 | 96.8  | 97.6 | 99.0  | 99.0  | 99.3 | 99.4 | 99.4 | 99.4 | 99.5  | 99.5 | 99.6  |
| ≥ 100           | 66.1                     | 87.4 | 90.1 | 93.0 | 94.9 | 96.8  | 97.6 | 99.0  | 99.0  | 99.5 | 99.8 | 99.8 | 99.9 | 99.9  | 99.9 | 100.0 |
| ≥ 0             | 66.1                     | 87.4 | 90.1 | 93.0 | 94.9 | 96.8  | 97.6 | 99.0  | 99.0  | 99.5 | 99.8 | 99.8 | 99.9 | 99.9  | 99.9 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 819

GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION 251 YOUNGSTOWN MAP OH  
STATION NAME

73-81

YEARS

OCT  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
LOCAL TIME

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |       |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼  | ≥ 1/8 | ≥ .  | ≥ 0   |
| NO CEILING      | 32.9                       | 42.0 | 43.4 | 44.4 | 44.7 | 45.1 | 45.1 | 45.4 | 45.6 | 45.9 | 46.0 | 46.0 | 46.0 | 46.0  | 46.0 | 46.0  |
| ≥ 20000         | 35.2                       | 46.5 | 47.9 | 48.9 | 49.2 | 49.6 | 49.6 | 49.9 | 50.1 | 50.4 | 50.5 | 50.5 | 50.5 | 50.5  | 50.5 | 50.5  |
| ≥ 18000         | 35.2                       | 46.5 | 47.9 | 48.9 | 49.2 | 49.6 | 49.6 | 49.9 | 50.1 | 50.4 | 50.5 | 50.5 | 50.5 | 50.5  | 50.5 | 50.5  |
| ≥ 16000         | 35.2                       | 46.5 | 47.9 | 48.9 | 49.2 | 49.6 | 49.6 | 49.9 | 50.1 | 50.4 | 50.5 | 50.5 | 50.5 | 50.5  | 50.5 | 50.5  |
| ≥ 14000         | 35.2                       | 46.5 | 47.9 | 48.9 | 49.2 | 49.6 | 49.6 | 49.9 | 50.1 | 50.4 | 50.5 | 50.5 | 50.5 | 50.5  | 50.5 | 50.5  |
| ≥ 12000         | 36.0                       | 47.3 | 48.4 | 49.8 | 51.0 | 50.5 | 50.5 | 50.7 | 51.0 | 51.2 | 51.3 | 51.3 | 51.3 | 51.3  | 51.3 | 51.3  |
| ≥ 10000         | 39.9                       | 52.1 | 53.6 | 54.6 | 54.9 | 55.3 | 55.3 | 55.6 | 55.8 | 56.1 | 56.2 | 56.2 | 56.2 | 56.2  | 56.2 | 56.2  |
| ≥ 9000          | 40.4                       | 52.7 | 54.2 | 55.2 | 55.5 | 55.9 | 55.9 | 56.2 | 56.4 | 56.7 | 56.8 | 56.8 | 56.8 | 56.8  | 56.8 | 56.8  |
| ≥ 8000          | 42.6                       | 55.7 | 57.5 | 58.5 | 58.7 | 59.2 | 59.2 | 59.5 | 59.7 | 60.0 | 60.1 | 60.1 | 60.1 | 60.1  | 60.1 | 60.1  |
| ≥ 7000          | 43.0                       | 56.1 | 57.9 | 59.0 | 59.2 | 59.7 | 59.7 | 60.0 | 60.2 | 60.4 | 60.6 | 60.6 | 60.6 | 60.6  | 60.6 | 60.6  |
| ≥ 6000          | 44.4                       | 57.8 | 59.6 | 60.7 | 61.0 | 61.5 | 61.5 | 61.8 | 62.0 | 62.3 | 62.5 | 62.6 | 62.6 | 62.6  | 62.6 | 62.6  |
| ≥ 5000          | 47.7                       | 61.5 | 63.5 | 64.7 | 65.0 | 65.5 | 65.5 | 65.8 | 66.0 | 66.3 | 66.5 | 66.6 | 66.6 | 66.6  | 66.6 | 66.6  |
| ≥ 4500          | 50.5                       | 65.0 | 67.0 | 68.2 | 68.6 | 69.1 | 69.3 | 69.5 | 69.8 | 70.0 | 70.1 | 70.1 | 70.1 | 70.1  | 70.1 | 70.1  |
| ≥ 4000          | 52.7                       | 68.3 | 70.3 | 71.7 | 72.1 | 72.6 | 72.8 | 73.1 | 73.3 | 73.5 | 73.7 | 73.7 | 73.7 | 73.7  | 73.7 | 73.7  |
| ≥ 3500          | 54.7                       | 70.8 | 72.7 | 74.6 | 75.0 | 75.5 | 75.7 | 76.0 | 76.2 | 76.5 | 76.6 | 76.6 | 76.6 | 76.6  | 76.6 | 76.6  |
| ≥ 3000          | 56.6                       | 74.8 | 77.1 | 79.0 | 79.4 | 79.9 | 80.1 | 80.3 | 80.6 | 80.8 | 80.9 | 80.9 | 80.9 | 80.9  | 80.9 | 80.9  |
| ≥ 2500          | 57.6                       | 77.9 | 80.2 | 82.2 | 82.5 | 83.0 | 83.3 | 83.5 | 83.7 | 84.0 | 84.1 | 84.1 | 84.1 | 84.1  | 84.1 | 84.1  |
| ≥ 2000          | 59.1                       | 81.8 | 83.3 | 85.2 | 85.6 | 86.0 | 86.3 | 86.5 | 86.8 | 87.0 | 87.1 | 87.1 | 87.1 | 87.1  | 87.1 | 87.1  |
| ≥ 1800          | 59.7                       | 81.9 | 84.5 | 86.5 | 86.9 | 87.4 | 87.7 | 88.1 | 88.3 | 88.6 | 88.7 | 88.7 | 88.7 | 88.7  | 88.7 | 88.7  |
| ≥ 1500          | 60.3                       | 83.5 | 86.2 | 88.5 | 88.8 | 89.3 | 89.7 | 90.0 | 90.3 | 90.5 | 90.7 | 90.7 | 90.7 | 90.7  | 90.7 | 90.7  |
| ≥ 1200          | 60.8                       | 84.7 | 87.4 | 89.9 | 90.3 | 90.9 | 91.3 | 91.6 | 91.9 | 92.1 | 92.2 | 92.2 | 92.2 | 92.2  | 92.2 | 92.2  |
| ≥ 1000          | 60.8                       | 85.1 | 87.9 | 90.8 | 91.1 | 91.9 | 92.2 | 92.6 | 92.8 | 93.1 | 93.2 | 93.2 | 93.2 | 93.2  | 93.2 | 93.2  |
| ≥ 900           | 60.9                       | 85.6 | 88.5 | 91.4 | 91.7 | 92.5 | 92.8 | 93.2 | 93.4 | 93.7 | 93.8 | 93.8 | 93.8 | 93.8  | 93.8 | 93.8  |
| ≥ 800           | 61.0                       | 85.8 | 88.7 | 91.7 | 92.1 | 93.0 | 93.3 | 93.7 | 93.9 | 94.2 | 94.3 | 94.3 | 94.3 | 94.3  | 94.3 | 94.3  |
| ≥ 700           | 61.1                       | 85.9 | 88.8 | 92.4 | 92.8 | 93.8 | 94.2 | 94.5 | 94.8 | 95.0 | 95.1 | 95.1 | 95.1 | 95.1  | 95.1 | 95.1  |
| ≥ 600           | 61.2                       | 86.3 | 89.3 | 92.8 | 93.4 | 94.5 | 94.9 | 95.4 | 95.6 | 95.9 | 96.0 | 96.0 | 96.0 | 96.0  | 96.0 | 96.0  |
| ≥ 500           | 61.2                       | 86.9 | 90.2 | 93.7 | 94.4 | 95.5 | 95.9 | 96.4 | 96.6 | 96.8 | 97.0 | 97.0 | 97.0 | 97.0  | 97.0 | 97.0  |
| ≥ 400           | 61.2                       | 87.1 | 90.7 | 94.4 | 95.4 | 96.6 | 97.0 | 97.5 | 97.7 | 97.9 | 98.1 | 98.1 | 98.1 | 98.1  | 98.1 | 98.1  |
| ≥ 300           | 61.2                       | 87.1 | 90.7 | 94.4 | 95.8 | 97.1 | 97.6 | 98.3 | 98.5 | 98.8 | 98.9 | 98.9 | 98.9 | 98.9  | 98.9 | 98.9  |
| ≥ 200           | 61.2                       | 87.1 | 90.7 | 94.5 | 95.9 | 97.2 | 97.7 | 98.5 | 98.8 | 99.2 | 99.3 | 99.3 | 99.3 | 99.3  | 99.3 | 99.3  |
| ≥ 100           | 61.2                       | 87.1 | 90.7 | 94.5 | 95.9 | 97.2 | 97.8 | 98.7 | 98.9 | 99.5 | 99.8 | 99.8 | 99.8 | 99.8  | 99.8 | 99.9  |
| ≥ 0             | 61.2                       | 87.1 | 90.7 | 94.5 | 95.9 | 97.2 | 97.8 | 98.7 | 98.9 | 99.5 | 99.8 | 99.8 | 99.8 | 99.8  | 99.8 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 824

JOINT CLIMATE BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

OCT

STATION

STATION NAME

YEARS

MONTH

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1-24

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥.4   |
| NO CEILING      | 26.6                     | 34.5 | 36.3 | 37.9 | 38.7 | 39.4 | 39.8 | 39.9 | 40.0 | 40.3 | 40.4 | 40.4 | 40.6 | 40.6 | 40.7 | 40.8  |
| ≥ 20000         | 26.6                     | 34.5 | 36.3 | 37.9 | 38.7 | 39.4 | 39.8 | 39.9 | 40.0 | 40.3 | 40.4 | 40.4 | 40.6 | 40.6 | 40.7 | 40.8  |
| ≥ 18000         | 29.6                     | 39.0 | 41.0 | 42.8 | 43.7 | 44.5 | 44.8 | 45.0 | 45.1 | 45.4 | 45.5 | 45.5 | 45.7 | 45.7 | 45.8 | 45.9  |
| ≥ 16000         | 29.6                     | 39.1 | 41.0 | 42.9 | 43.8 | 44.5 | 44.9 | 45.1 | 45.1 | 45.4 | 45.5 | 45.5 | 45.7 | 45.7 | 45.8 | 46.0  |
| ≥ 14000         | 29.6                     | 39.3 | 41.3 | 43.1 | 44.0 | 44.8 | 45.2 | 45.3 | 45.4 | 45.7 | 45.8 | 45.8 | 46.0 | 46.0 | 46.1 | 46.2  |
| ≥ 12000         | 31.0                     | 41.8 | 42.9 | 44.7 | 45.6 | 46.4 | 46.8 | 46.9 | 47.0 | 47.3 | 47.4 | 47.4 | 47.6 | 47.6 | 47.7 | 47.8  |
| ≥ 10000         | 33.1                     | 43.6 | 45.7 | 47.6 | 48.6 | 49.4 | 49.7 | 49.9 | 50.0 | 50.3 | 50.4 | 50.4 | 50.6 | 50.6 | 50.7 | 50.8  |
| ≥ 9000          | 33.4                     | 44.3 | 46.4 | 48.3 | 49.3 | 50.0 | 50.4 | 50.6 | 50.7 | 50.9 | 51.1 | 51.1 | 51.3 | 51.3 | 51.3 | 51.5  |
| ≥ 8000          | 34.7                     | 46.0 | 48.2 | 50.3 | 51.3 | 52.1 | 52.5 | 52.7 | 52.8 | 53.1 | 53.2 | 53.2 | 53.4 | 53.4 | 53.5 | 53.6  |
| ≥ 7000          | 35.3                     | 46.9 | 49.3 | 51.5 | 52.5 | 53.3 | 53.7 | 53.9 | 54.1 | 54.3 | 54.4 | 54.4 | 54.6 | 54.6 | 54.7 | 54.8  |
| ≥ 6000          | 35.9                     | 48.0 | 50.4 | 52.6 | 53.7 | 54.5 | 55.0 | 55.2 | 55.3 | 55.6 | 55.7 | 55.7 | 55.9 | 55.9 | 56.0 | 56.1  |
| ≥ 5000          | 39.0                     | 51.7 | 54.3 | 56.6 | 57.8 | 58.7 | 59.2 | 59.4 | 59.5 | 59.8 | 59.9 | 59.9 | 60.1 | 60.1 | 60.2 | 60.4  |
| ≥ 4500          | 41.3                     | 54.4 | 56.9 | 59.4 | 60.6 | 61.6 | 62.1 | 62.4 | 62.5 | 62.8 | 62.9 | 62.9 | 63.1 | 63.1 | 63.2 | 63.3  |
| ≥ 4000          | 44.5                     | 58.3 | 61.7 | 63.5 | 64.7 | 65.8 | 66.3 | 66.6 | 66.7 | 67.0 | 67.1 | 67.1 | 67.3 | 67.3 | 67.4 | 67.6  |
| ≥ 3500          | 47.3                     | 61.9 | 64.7 | 67.3 | 68.5 | 69.7 | 70.2 | 70.5 | 70.6 | 70.9 | 71.1 | 71.1 | 71.3 | 71.3 | 71.3 | 71.5  |
| ≥ 3000          | 50.3                     | 66.1 | 69.1 | 71.9 | 73.1 | 74.4 | 75.0 | 75.3 | 75.4 | 75.7 | 75.8 | 75.8 | 76.0 | 76.0 | 76.1 | 76.3  |
| ≥ 2500          | 52.3                     | 69.9 | 72.9 | 75.9 | 77.2 | 78.5 | 79.2 | 79.5 | 79.7 | 80.0 | 80.1 | 80.1 | 80.3 | 80.3 | 80.4 | 80.5  |
| ≥ 2000          | 54.9                     | 73.3 | 76.5 | 79.6 | 80.8 | 82.2 | 83.0 | 83.3 | 83.4 | 83.7 | 83.9 | 83.9 | 84.1 | 84.1 | 84.2 | 84.3  |
| ≥ 1800          | 55.6                     | 74.6 | 77.9 | 81.0 | 82.3 | 83.7 | 84.6 | 84.9 | 85.0 | 85.4 | 85.5 | 85.5 | 85.7 | 85.7 | 85.8 | 86.0  |
| ≥ 1500          | 56.3                     | 75.7 | 79.1 | 82.3 | 83.6 | 85.1 | 86.0 | 86.4 | 86.5 | 86.9 | 87.0 | 87.0 | 87.2 | 87.2 | 87.3 | 87.5  |
| ≥ 1200          | 56.8                     | 76.9 | 80.4 | 83.9 | 85.3 | 86.9 | 87.8 | 88.3 | 88.4 | 88.8 | 89.0 | 89.0 | 89.1 | 89.1 | 89.2 | 89.4  |
| ≥ 1000          | 57.1                     | 77.7 | 81.3 | 85.0 | 86.5 | 88.2 | 89.3 | 89.8 | 89.9 | 90.3 | 90.5 | 90.5 | 90.7 | 90.7 | 90.8 | 90.9  |
| ≥ 900           | 57.2                     | 78.1 | 81.8 | 85.6 | 87.1 | 88.8 | 89.9 | 90.5 | 90.6 | 91.0 | 91.2 | 91.2 | 91.4 | 91.4 | 91.4 | 91.6  |
| ≥ 800           | 57.3                     | 78.3 | 82.1 | 86.0 | 87.6 | 89.4 | 90.6 | 91.1 | 91.3 | 91.7 | 91.9 | 91.9 | 92.1 | 92.1 | 92.1 | 92.3  |
| ≥ 700           | 57.4                     | 78.7 | 82.6 | 86.7 | 88.4 | 90.4 | 91.6 | 92.2 | 92.3 | 92.8 | 93.0 | 93.0 | 93.2 | 93.2 | 93.2 | 93.4  |
| ≥ 600           | 57.4                     | 78.9 | 82.9 | 87.1 | 88.9 | 91.0 | 92.5 | 93.3 | 93.4 | 93.9 | 94.1 | 94.1 | 94.3 | 94.3 | 94.4 | 94.5  |
| ≥ 500           | 57.5                     | 79.4 | 83.5 | 87.9 | 89.9 | 92.2 | 93.8 | 94.7 | 94.8 | 95.3 | 95.5 | 95.5 | 95.7 | 95.7 | 95.8 | 95.9  |
| ≥ 400           | 57.5                     | 79.5 | 83.7 | 88.3 | 90.5 | 93.0 | 94.7 | 95.8 | 95.9 | 96.5 | 96.7 | 96.7 | 96.9 | 96.9 | 97.0 | 97.2  |
| ≥ 300           | 57.5                     | 79.5 | 83.8 | 88.4 | 90.8 | 93.5 | 95.4 | 96.6 | 96.7 | 97.5 | 97.8 | 97.8 | 98.0 | 98.0 | 98.1 | 98.2  |
| ≥ 200           | 57.5                     | 79.5 | 83.8 | 88.5 | 91.0 | 93.8 | 95.8 | 97.1 | 97.2 | 98.1 | 98.5 | 98.6 | 98.9 | 98.9 | 99.0 | 99.2  |
| ≥ 100           | 57.5                     | 79.5 | 83.8 | 88.5 | 91.0 | 93.8 | 95.8 | 97.2 | 97.3 | 98.3 | 98.8 | 98.8 | 99.2 | 99.2 | 99.3 | 99.6  |
| ≥ 0             | 57.5                     | 79.5 | 83.8 | 88.5 | 91.0 | 93.8 | 95.8 | 97.2 | 97.3 | 98.3 | 98.8 | 98.8 | 99.2 | 99.2 | 99.4 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 6571

CLIMATE CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/4AC

# CEILING VERSUS VISIBILITY

STATION

YOUNGSTOWN MAP OH

73-81

YEARS

NOV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1000-2200  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥.4   |
| NO CEILING      | 21.7                     | 28.4 | 29.8 | 30.8 | 31.0 | 31.1 | 31.1 | 31.1 | 31.1 | 31.2 | 31.5 | 31.5 | 32.0 | 32.0 | 32.1 | 32.2  |
| ≥ 20000         | 21.7                     | 31.1 | 32.4 | 33.6 | 33.8 | 33.9 | 33.9 | 33.9 | 33.9 | 34.1 | 34.4 | 34.4 | 34.9 | 34.9 | 35.0 | 35.1  |
| ≥ 18000         | 22.1                     | 31.1 | 32.5 | 33.8 | 33.9 | 34.0 | 34.0 | 34.0 | 34.0 | 34.3 | 34.5 | 34.5 | 35.0 | 35.0 | 35.1 | 35.3  |
| ≥ 16000         | 22.1                     | 31.1 | 32.5 | 33.8 | 33.9 | 34.0 | 34.0 | 34.0 | 34.0 | 34.3 | 34.5 | 34.5 | 35.0 | 35.0 | 35.1 | 35.3  |
| ≥ 14000         | 22.1                     | 31.2 | 32.5 | 33.9 | 34.0 | 34.1 | 34.1 | 34.1 | 34.1 | 34.4 | 34.6 | 34.6 | 35.1 | 35.1 | 35.3 | 35.4  |
| ≥ 12000         | 22.4                     | 32.0 | 33.5 | 34.8 | 34.9 | 35.0 | 35.0 | 35.0 | 35.0 | 35.3 | 35.5 | 35.5 | 36.0 | 36.0 | 36.2 | 36.3  |
| ≥ 10000         | 24.7                     | 35.1 | 36.7 | 37.9 | 38.1 | 38.2 | 38.2 | 38.2 | 38.2 | 38.4 | 38.7 | 38.7 | 39.2 | 39.2 | 39.3 | 39.4  |
| ≥ 9000          | 24.7                     | 35.1 | 36.7 | 37.9 | 38.1 | 38.2 | 38.2 | 38.2 | 38.2 | 38.4 | 38.7 | 38.7 | 39.2 | 39.2 | 39.3 | 39.4  |
| ≥ 8000          | 26.0                     | 37.2 | 38.7 | 39.9 | 40.1 | 40.3 | 40.3 | 40.5 | 40.5 | 40.7 | 41.0 | 41.0 | 41.5 | 41.5 | 41.6 | 41.7  |
| ≥ 7000          | 26.5                     | 38.3 | 39.9 | 41.2 | 41.3 | 41.6 | 41.8 | 42.0 | 42.0 | 42.2 | 42.5 | 42.5 | 43.0 | 43.0 | 43.1 | 43.2  |
| ≥ 6000          | 26.9                     | 39.1 | 41.7 | 42.2 | 42.4 | 42.6 | 42.9 | 43.0 | 43.0 | 43.2 | 43.5 | 43.5 | 44.0 | 44.0 | 44.1 | 44.2  |
| ≥ 5000          | 29.7                     | 43.7 | 45.8 | 47.0 | 47.2 | 47.4 | 47.7 | 47.8 | 47.8 | 48.0 | 48.3 | 48.3 | 48.8 | 48.8 | 48.9 | 49.1  |
| ≥ 4500          | 31.6                     | 44.8 | 47.3 | 48.5 | 48.7 | 48.9 | 49.2 | 49.3 | 49.3 | 49.6 | 49.8 | 49.8 | 50.3 | 50.3 | 50.4 | 50.6  |
| ≥ 4000          | 34.1                     | 49.4 | 52.0 | 53.2 | 53.4 | 53.6 | 53.9 | 54.0 | 54.0 | 54.2 | 54.5 | 54.5 | 55.0 | 55.0 | 55.1 | 55.2  |
| ≥ 3500          | 36.9                     | 54.1 | 56.8 | 58.0 | 58.2 | 58.4 | 58.7 | 58.8 | 58.8 | 59.0 | 59.3 | 59.3 | 59.8 | 59.8 | 59.9 | 60.1  |
| ≥ 3000          | 40.0                     | 59.5 | 62.2 | 64.2 | 64.6 | 65.0 | 65.2 | 65.4 | 65.4 | 65.6 | 65.9 | 65.9 | 66.4 | 66.4 | 66.5 | 66.6  |
| ≥ 2500          | 43.7                     | 64.3 | 67.3 | 68.6 | 69.0 | 69.4 | 69.7 | 69.8 | 69.8 | 70.0 | 70.3 | 70.3 | 70.8 | 70.8 | 70.9 | 71.0  |
| ≥ 2000          | 46.9                     | 66.5 | 71.6 | 72.9 | 73.3 | 73.7 | 74.0 | 74.1 | 74.1 | 74.3 | 74.6 | 74.6 | 75.1 | 75.1 | 75.2 | 75.3  |
| ≥ 1800          | 47.9                     | 70.3 | 73.6 | 75.2 | 75.6 | 76.0 | 76.2 | 76.4 | 76.4 | 76.6 | 76.9 | 76.9 | 77.4 | 77.4 | 77.5 | 77.6  |
| ≥ 1500          | 49.2                     | 73.5 | 76.9 | 78.9 | 79.5 | 79.9 | 80.4 | 80.7 | 80.7 | 80.9 | 81.2 | 81.2 | 81.7 | 81.7 | 81.8 | 81.9  |
| ≥ 1200          | 51.4                     | 76.4 | 80.9 | 83.2 | 83.9 | 84.5 | 85.3 | 85.7 | 85.7 | 86.0 | 86.2 | 86.2 | 86.7 | 86.7 | 86.9 | 87.1  |
| ≥ 1000          | 51.1                     | 77.5 | 82.6 | 85.2 | 86.1 | 86.6 | 87.7 | 88.1 | 88.1 | 88.4 | 88.6 | 88.6 | 89.1 | 89.1 | 89.3 | 89.4  |
| ≥ 900           | 51.2                     | 78.1 | 83.4 | 86.1 | 87.0 | 87.5 | 88.6 | 89.0 | 89.0 | 89.3 | 89.5 | 89.5 | 90.0 | 90.0 | 90.1 | 90.3  |
| ≥ 800           | 51.3                     | 79.0 | 84.5 | 87.7 | 88.6 | 89.1 | 90.5 | 90.9 | 90.9 | 91.2 | 91.4 | 91.4 | 91.9 | 91.9 | 92.0 | 92.2  |
| ≥ 700           | 51.5                     | 80.4 | 86.1 | 89.5 | 90.6 | 91.3 | 92.7 | 93.0 | 93.0 | 93.3 | 93.6 | 93.6 | 94.1 | 94.1 | 94.2 | 94.3  |
| ≥ 600           | 51.5                     | 80.7 | 86.6 | 90.1 | 91.5 | 92.4 | 93.9 | 94.3 | 94.3 | 94.6 | 94.8 | 94.8 | 95.3 | 95.3 | 95.4 | 95.6  |
| ≥ 500           | 51.5                     | 81.2 | 87.2 | 90.8 | 92.2 | 93.3 | 94.9 | 95.3 | 95.3 | 95.6 | 95.8 | 95.8 | 96.3 | 96.3 | 96.5 | 96.6  |
| ≥ 400           | 51.5                     | 81.3 | 87.6 | 91.4 | 92.8 | 94.4 | 96.1 | 96.5 | 96.5 | 96.7 | 97.0 | 97.0 | 97.5 | 97.5 | 97.6 | 97.7  |
| ≥ 300           | 51.5                     | 81.4 | 87.7 | 91.8 | 93.2 | 94.8 | 96.5 | 97.0 | 97.0 | 97.2 | 97.5 | 97.5 | 98.0 | 98.0 | 98.1 | 98.2  |
| ≥ 200           | 51.5                     | 81.4 | 87.7 | 91.9 | 93.3 | 94.9 | 96.6 | 97.3 | 97.3 | 97.7 | 98.0 | 98.0 | 98.5 | 98.5 | 98.6 | 98.7  |
| ≥ 100           | 51.5                     | 81.4 | 87.7 | 91.9 | 93.3 | 94.9 | 96.6 | 97.3 | 97.3 | 97.7 | 98.0 | 98.0 | 98.6 | 98.6 | 99.2 | 99.4  |
| ≥ 0             | 51.5                     | 81.4 | 87.7 | 91.9 | 93.3 | 94.9 | 96.6 | 97.3 | 97.3 | 97.7 | 98.0 | 98.0 | 98.6 | 98.6 | 99.4 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 791

CLIMATE CLIMATOLOGY BRANCH  
USAF ETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-21

YEARS

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1300-2500  
HOURS (EST)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2   | ≥2   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥0    |
| NO CEILING      | 27.8                     | 27.7 | 28.5 | 29.7 | 30.1 | 30.2 | 30.3 | 30.4 | 30.4 | 30.7 | 31.2 | 31.2 | 31.2 | 31.2 | 31.2 | 31.7  |
| ≥ 20000         | 28.7                     | 28.4 | 29.4 | 31.2 | 31.6 | 31.8 | 32.7 | 32.1 | 32.1 | 32.4 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 33.4  |
| ≥ 18000         | 28.7                     | 28.4 | 29.4 | 31.2 | 31.6 | 31.8 | 32.0 | 32.1 | 32.1 | 32.4 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 33.4  |
| ≥ 16000         | 28.7                     | 28.4 | 29.4 | 31.2 | 31.6 | 31.8 | 32.7 | 32.1 | 32.1 | 32.4 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 33.4  |
| ≥ 14000         | 28.7                     | 28.4 | 29.4 | 31.2 | 31.6 | 31.8 | 32.7 | 32.1 | 32.1 | 32.4 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 33.4  |
| ≥ 12000         | 28.9                     | 29.2 | 31.2 | 32.5 | 32.9 | 33.1 | 33.2 | 33.4 | 33.4 | 33.6 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.7  |
| ≥ 10000         | 29.9                     | 31.5 | 33.6 | 34.9 | 35.3 | 35.5 | 35.7 | 35.8 | 35.8 | 36.1 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 37.1  |
| ≥ 9000          | 29.2                     | 31.8 | 34.0 | 35.3 | 35.7 | 35.9 | 36.1 | 36.2 | 36.2 | 36.4 | 37.0 | 37.2 | 37.0 | 37.0 | 37.0 | 37.5  |
| ≥ 8000          | 28.1                     | 34.1 | 36.3 | 37.6 | 38.0 | 38.4 | 38.5 | 38.7 | 38.7 | 39.0 | 39.5 | 39.5 | 39.5 | 39.5 | 39.5 | 40.0  |
| ≥ 7000          | 22.5                     | 35.3 | 37.2 | 38.5 | 39.9 | 39.3 | 39.4 | 39.6 | 39.6 | 39.9 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4 | 40.9  |
| ≥ 6000          | 23.7                     | 36.2 | 38.7 | 40.0 | 40.4 | 40.8 | 40.9 | 41.2 | 41.2 | 41.4 | 41.9 | 41.9 | 41.9 | 41.9 | 41.9 | 42.5  |
| ≥ 5000          | 26.3                     | 40.2 | 43.0 | 44.2 | 44.6 | 45.0 | 45.1 | 45.4 | 45.4 | 45.7 | 46.2 | 46.2 | 46.2 | 46.2 | 46.2 | 46.7  |
| ≥ 4500          | 27.2                     | 41.8 | 44.9 | 46.2 | 46.5 | 46.9 | 47.1 | 47.3 | 47.3 | 47.6 | 48.1 | 48.1 | 48.1 | 48.1 | 48.1 | 48.6  |
| ≥ 4000          | 29.7                     | 45.7 | 48.7 | 50.1 | 50.5 | 50.9 | 51.0 | 51.3 | 51.3 | 51.5 | 52.0 | 52.0 | 52.0 | 52.0 | 52.0 | 52.6  |
| ≥ 3500          | 33.0                     | 51.1 | 54.3 | 56.0 | 56.4 | 56.8 | 56.9 | 57.2 | 57.2 | 57.4 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 58.4  |
| ≥ 3000          | 35.4                     | 54.2 | 57.7 | 59.7 | 61.1 | 61.5 | 62.6 | 62.9 | 62.9 | 63.1 | 63.8 | 63.8 | 63.8 | 63.8 | 63.8 | 64.3  |
| ≥ 2500          | 32.7                     | 59.2 | 62.8 | 65.1 | 65.6 | 66.1 | 66.1 | 66.4 | 66.4 | 66.6 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 | 67.8  |
| ≥ 2000          | 41.5                     | 63.6 | 67.4 | 70.1 | 70.7 | 71.1 | 71.2 | 71.6 | 71.6 | 71.9 | 72.5 | 72.5 | 72.5 | 72.5 | 72.5 | 73.0  |
| ≥ 1800          | 43.4                     | 65.7 | 69.7 | 72.5 | 73.1 | 73.7 | 73.8 | 74.2 | 74.2 | 74.4 | 75.1 | 75.1 | 75.1 | 75.1 | 75.1 | 75.6  |
| ≥ 1500          | 44.0                     | 67.5 | 71.5 | 74.3 | 74.9 | 75.4 | 75.8 | 76.2 | 76.2 | 76.5 | 77.1 | 77.1 | 77.1 | 77.1 | 77.1 | 77.6  |
| ≥ 1200          | 45.9                     | 71.9 | 76.6 | 80.4 | 81.1 | 81.8 | 82.2 | 82.6 | 82.6 | 82.9 | 83.5 | 83.5 | 83.5 | 83.5 | 83.5 | 84.0  |
| ≥ 1000          | 46.4                     | 74.0 | 79.3 | 83.9 | 84.5 | 85.3 | 85.9 | 86.3 | 86.4 | 86.7 | 87.3 | 87.3 | 87.5 | 87.5 | 87.5 | 88.0  |
| ≥ 900           | 47.1                     | 74.7 | 79.9 | 84.5 | 85.2 | 85.9 | 86.8 | 87.2 | 87.3 | 87.6 | 88.2 | 88.2 | 88.4 | 88.4 | 88.4 | 88.9  |
| ≥ 800           | 47.2                     | 75.4 | 81.7 | 85.4 | 86.2 | 87.0 | 88.0 | 88.4 | 88.5 | 88.9 | 89.5 | 89.5 | 89.6 | 89.6 | 89.6 | 90.2  |
| ≥ 700           | 47.2                     | 76.9 | 82.4 | 87.2 | 88.2 | 89.0 | 90.2 | 90.5 | 90.7 | 91.0 | 91.7 | 91.7 | 91.8 | 91.8 | 91.8 | 92.3  |
| ≥ 600           | 47.3                     | 77.4 | 83.1 | 88.4 | 89.4 | 90.2 | 91.3 | 91.7 | 91.8 | 92.2 | 92.8 | 92.8 | 93.0 | 93.0 | 93.0 | 93.5  |
| ≥ 500           | 47.4                     | 77.5 | 83.4 | 89.5 | 90.8 | 91.8 | 93.0 | 93.4 | 93.5 | 93.9 | 94.5 | 94.5 | 94.6 | 94.6 | 94.6 | 95.1  |
| ≥ 400           | 47.6                     | 77.7 | 83.9 | 90.4 | 91.8 | 92.8 | 94.1 | 94.5 | 94.6 | 95.0 | 95.7 | 95.7 | 95.8 | 95.8 | 95.8 | 96.3  |
| ≥ 300           | 47.6                     | 77.7 | 84.0 | 90.9 | 92.3 | 93.4 | 94.6 | 95.1 | 95.3 | 95.7 | 96.3 | 96.3 | 96.4 | 96.4 | 96.4 | 96.9  |
| ≥ 200           | 47.5                     | 77.7 | 84.0 | 90.9 | 92.3 | 93.4 | 94.6 | 95.3 | 95.4 | 95.8 | 96.8 | 96.8 | 97.1 | 97.2 | 97.4 | 98.1  |
| ≥ 100           | 47.6                     | 77.7 | 84.0 | 90.9 | 92.3 | 93.4 | 94.6 | 95.3 | 95.4 | 95.8 | 96.9 | 96.9 | 97.2 | 97.3 | 98.1 | 99.7  |
| ≥ 0             | 47.6                     | 77.7 | 84.0 | 90.9 | 92.3 | 93.4 | 94.6 | 95.3 | 95.4 | 95.8 | 96.9 | 96.9 | 97.2 | 97.3 | 98.3 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 782

USAF CLIMATOLOGY BRANCH  
 AFETAC  
 AIR WEATHER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

NOV

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

630-2600

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |       |      |      |      |      |       |      |       |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|-------|------|------|------|------|-------|------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.4 | ≥ 1  | ≥ .5 | ≥ .4 | ≥ .3 | ≥ .25 | ≥ .2 | ≥ 0   |
| NO CEILING      | 13.5                       | 19.9 | 21.9 | 22.6 | 23.6 | 24.3  | 24.7 | 24.9  | 24.9  | 25.2 | 25.2 | 25.2 | 25.3 | 25.3  | 25.4 | 25.5  |
| ≥ 20000         | 16.7                       | 24.2 | 26.3 | 27.3 | 28.2 | 28.8  | 29.4 | 29.4  | 29.4  | 29.7 | 29.7 | 29.7 | 29.9 | 29.9  | 30.2 | 30.3  |
| ≥ 18000         | 16.7                       | 24.3 | 26.4 | 27.4 | 28.3 | 28.9  | 29.6 | 29.6  | 29.6  | 29.8 | 29.8 | 29.8 | 30.1 | 30.1  | 30.3 | 30.4  |
| ≥ 16000         | 16.7                       | 24.3 | 26.4 | 27.4 | 28.3 | 28.9  | 29.6 | 29.6  | 29.6  | 29.8 | 29.8 | 29.8 | 30.1 | 30.1  | 30.3 | 30.4  |
| ≥ 14000         | 17.1                       | 24.4 | 26.5 | 27.5 | 28.4 | 29.1  | 29.7 | 29.7  | 29.7  | 29.9 | 29.9 | 29.9 | 30.2 | 30.2  | 30.4 | 30.6  |
| ≥ 12000         | 17.7                       | 26.4 | 28.6 | 29.6 | 30.4 | 31.1  | 31.7 | 31.7  | 31.7  | 31.9 | 31.9 | 31.9 | 32.2 | 32.2  | 32.5 | 32.6  |
| ≥ 10000         | 17.7                       | 28.8 | 31.3 | 32.5 | 33.3 | 34.0  | 34.6 | 34.6  | 34.6  | 34.8 | 34.8 | 34.8 | 35.1 | 35.1  | 35.3 | 35.5  |
| ≥ 9000          | 14.7                       | 28.8 | 31.3 | 32.5 | 33.3 | 34.0  | 34.6 | 34.6  | 34.6  | 34.8 | 34.8 | 34.8 | 35.1 | 35.1  | 35.3 | 35.5  |
| ≥ 8000          | 19.4                       | 30.6 | 33.1 | 34.2 | 35.1 | 35.7  | 36.4 | 36.4  | 36.4  | 36.6 | 36.6 | 36.6 | 36.9 | 36.9  | 37.1 | 37.2  |
| ≥ 7000          | 19.7                       | 31.2 | 33.7 | 34.8 | 35.1 | 36.7  | 37.4 | 37.4  | 37.4  | 37.6 | 37.6 | 37.6 | 37.9 | 37.9  | 38.1 | 38.2  |
| ≥ 6000          | 27.5                       | 32.5 | 35.2 | 36.4 | 37.6 | 38.2  | 38.9 | 38.9  | 38.9  | 39.1 | 39.1 | 39.1 | 39.4 | 39.4  | 39.6 | 39.7  |
| ≥ 5000          | 23.4                       | 36.1 | 39.0 | 40.4 | 41.8 | 42.4  | 43.1 | 43.1  | 43.1  | 43.4 | 43.4 | 43.4 | 43.6 | 43.6  | 43.9 | 44.0  |
| ≥ 4500          | 24.3                       | 37.7 | 40.8 | 42.1 | 43.5 | 44.2  | 44.9 | 44.9  | 44.9  | 45.2 | 45.2 | 45.2 | 45.4 | 45.4  | 45.7 | 45.8  |
| ≥ 4000          | 27.2                       | 41.4 | 44.5 | 46.2 | 47.5 | 48.3  | 49.1 | 49.1  | 49.1  | 49.3 | 49.3 | 49.3 | 49.6 | 49.6  | 49.8 | 49.9  |
| ≥ 3500          | 29.6                       | 44.4 | 47.9 | 49.8 | 51.2 | 51.9  | 52.7 | 52.7  | 52.7  | 53.0 | 53.0 | 53.0 | 53.2 | 53.2  | 53.5 | 53.6  |
| ≥ 3000          | 32.3                       | 48.4 | 52.2 | 54.2 | 55.7 | 56.5  | 57.5 | 57.5  | 57.5  | 57.7 | 57.7 | 57.7 | 58.1 | 58.1  | 58.4 | 58.5  |
| ≥ 2500          | 35.3                       | 53.8 | 57.9 | 60.7 | 61.5 | 62.6  | 63.9 | 64.0  | 64.0  | 64.3 | 64.4 | 64.4 | 64.7 | 64.7  | 64.9 | 65.0  |
| ≥ 2000          | 37.9                       | 59.5 | 63.8 | 66.0 | 67.8 | 69.1  | 70.4 | 70.6  | 70.6  | 70.9 | 71.1 | 71.2 | 71.4 | 71.4  | 71.7 | 71.8  |
| ≥ 1800          | 41.0                       | 61.5 | 65.9 | 68.6 | 70.4 | 71.8  | 73.2 | 73.3  | 73.3  | 73.7 | 73.8 | 74.0 | 74.2 | 74.2  | 74.5 | 74.6  |
| ≥ 1500          | 41.9                       | 63.4 | 67.8 | 70.6 | 72.5 | 74.0  | 75.5 | 75.7  | 75.7  | 76.1 | 76.4 | 76.5 | 76.7 | 76.7  | 77.0 | 77.1  |
| ≥ 1200          | 43.4                       | 65.9 | 70.6 | 73.7 | 75.6 | 77.2  | 79.1 | 79.5  | 79.5  | 79.9 | 80.1 | 80.3 | 80.5 | 80.5  | 80.8 | 80.9  |
| ≥ 1000          | 44.2                       | 68.2 | 73.0 | 76.4 | 78.2 | 80.0  | 82.0 | 82.4  | 82.4  | 82.6 | 83.0 | 83.1 | 83.4 | 83.4  | 83.6 | 83.8  |
| ≥ 900           | 44.5                       | 69.1 | 74.0 | 77.4 | 79.4 | 81.3  | 83.3 | 83.6  | 83.6  | 84.2 | 84.5 | 84.7 | 84.9 | 84.9  | 85.2 | 85.3  |
| ≥ 800           | 44.5                       | 69.6 | 75.0 | 79.0 | 81.0 | 82.9  | 85.0 | 85.8  | 85.8  | 86.3 | 86.8 | 86.9 | 87.2 | 87.2  | 87.4 | 87.5  |
| ≥ 700           | 44.9                       | 71.4 | 76.7 | 80.8 | 83.3 | 85.3  | 87.7 | 88.6  | 88.6  | 89.1 | 89.8 | 89.9 | 90.3 | 90.3  | 90.6 | 90.7  |
| ≥ 600           | 44.3                       | 71.7 | 77.2 | 81.5 | 84.0 | 86.2  | 88.6 | 89.4  | 89.4  | 90.1 | 90.9 | 91.1 | 91.4 | 91.4  | 91.7 | 91.8  |
| ≥ 500           | 44.4                       | 71.9 | 77.5 | 82.3 | 84.8 | 86.9  | 89.6 | 90.6  | 90.6  | 91.3 | 92.3 | 92.5 | 92.8 | 92.8  | 93.1 | 93.2  |
| ≥ 400           | 44.8                       | 71.9 | 77.6 | 82.9 | 85.4 | 87.7  | 90.7 | 91.8  | 91.8  | 92.7 | 93.7 | 93.8 | 94.5 | 94.5  | 94.7 | 94.8  |
| ≥ 300           | 44.8                       | 71.9 | 77.6 | 83.4 | 85.9 | 88.4  | 91.9 | 93.1  | 93.1  | 94.2 | 95.3 | 95.5 | 96.1 | 96.1  | 96.4 | 96.5  |
| ≥ 200           | 44.8                       | 71.9 | 77.6 | 83.4 | 85.9 | 88.4  | 92.2 | 93.3  | 93.3  | 94.8 | 96.4 | 96.5 | 97.4 | 97.4  | 97.7 | 98.2  |
| ≥ 100           | 44.8                       | 71.9 | 77.6 | 83.4 | 85.9 | 88.4  | 92.2 | 93.3  | 93.3  | 94.8 | 96.4 | 96.5 | 97.4 | 97.4  | 97.7 | 98.6  |
| ≥ 0             | 44.8                       | 71.9 | 77.6 | 83.4 | 85.9 | 88.4  | 92.2 | 93.3  | 93.3  | 94.8 | 96.4 | 96.5 | 97.4 | 97.4  | 98.1 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 795

AF CLIMATOLOGY BRANCH  
ETAC  
WEATHER SERVICE/HAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-61

NOV

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

0900-1100  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥0    |
| NO CEILING      | 11.3                     | 16.3 | 17.2 | 16.7 | 19.8 | 22.6 | 21.8 | 22.1 | 22.1 | 22.2 | 22.7 | 22.2 | 22.2 | 22.2 | 22.2 | 22.4  |
| ≥ 20000         | 15.3                     | 21.5 | 23.2 | 24.6 | 25.9 | 26.7 | 27.9 | 28.2 | 28.2 | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | 28.3 | 28.6  |
| ≥ 18000         | 15.3                     | 22.2 | 23.5 | 25.2 | 26.3 | 27.1 | 28.3 | 28.6 | 28.6 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.9  |
| ≥ 16000         | 16.3                     | 22.3 | 23.7 | 25.3 | 26.4 | 27.2 | 28.4 | 28.7 | 28.7 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 28.8 | 29.1  |
| ≥ 14000         | 16.7                     | 23.1 | 24.5 | 26.2 | 27.3 | 28.1 | 29.3 | 29.6 | 29.6 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.9  |
| ≥ 12000         | 16.7                     | 25.4 | 27.1 | 28.9 | 31.1 | 31.8 | 32.1 | 32.3 | 32.3 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5 | 32.7  |
| ≥ 10000         | 19.4                     | 27.6 | 29.3 | 31.5 | 32.6 | 33.3 | 34.6 | 34.8 | 34.8 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.2  |
| ≥ 9000          | 19.5                     | 27.8 | 29.8 | 32.0 | 33.1 | 33.8 | 35.2 | 35.5 | 35.5 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.8  |
| ≥ 8000          | 20.4                     | 29.4 | 31.5 | 33.7 | 34.8 | 35.6 | 37.0 | 37.2 | 37.2 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.6  |
| ≥ 7000          | 20.7                     | 29.7 | 31.7 | 34.2 | 35.3 | 36.1 | 37.5 | 37.7 | 37.7 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 | 38.1  |
| ≥ 6000          | 21.3                     | 31.7 | 32.8 | 35.3 | 35.5 | 37.2 | 38.6 | 38.8 | 38.8 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.2  |
| ≥ 5000          | 22.1                     | 33.3 | 35.5 | 38.2 | 39.3 | 40.1 | 41.7 | 42.0 | 42.0 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.4  |
| ≥ 4500          | 24.4                     | 35.7 | 37.3 | 41.4 | 41.5 | 42.2 | 44.0 | 44.2 | 44.2 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.6  |
| ≥ 4000          | 26.6                     | 38.7 | 40.6 | 43.6 | 44.9 | 45.6 | 47.5 | 47.9 | 47.9 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.0 | 48.2  |
| ≥ 3500          | 29.4                     | 41.7 | 44.4 | 47.5 | 48.7 | 49.5 | 51.4 | 51.8 | 51.8 | 51.9 | 51.9 | 51.9 | 51.9 | 51.9 | 51.9 | 52.1  |
| ≥ 3000          | 32.6                     | 46.0 | 49.1 | 52.1 | 53.4 | 54.1 | 56.0 | 56.4 | 56.4 | 56.5 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 57.0  |
| ≥ 2500          | 37.5                     | 52.0 | 55.4 | 58.8 | 60.3 | 61.2 | 63.2 | 63.7 | 63.7 | 63.8 | 63.9 | 63.9 | 63.9 | 64.0 | 64.0 | 64.3  |
| ≥ 2000          | 41.0                     | 57.5 | 61.3 | 64.8 | 67.2 | 68.4 | 70.9 | 71.4 | 71.4 | 71.6 | 71.7 | 71.7 | 71.8 | 71.8 | 71.8 | 72.1  |
| ≥ 1800          | 42.7                     | 59.1 | 62.8 | 66.5 | 68.9 | 70.3 | 72.8 | 73.3 | 73.3 | 73.4 | 73.6 | 73.6 | 73.7 | 73.7 | 73.7 | 73.9  |
| ≥ 1500          | 44.2                     | 61.8 | 65.5 | 69.2 | 71.6 | 73.1 | 75.7 | 76.2 | 76.2 | 76.3 | 76.6 | 76.6 | 76.7 | 76.7 | 76.7 | 76.9  |
| ≥ 1200          | 45.6                     | 64.3 | 68.2 | 72.1 | 74.6 | 76.1 | 79.3 | 79.9 | 79.9 | 80.2 | 80.6 | 80.6 | 80.7 | 80.7 | 80.7 | 81.0  |
| ≥ 1000          | 46.4                     | 66.1 | 70.1 | 74.2 | 77.1 | 78.8 | 82.6 | 83.3 | 83.3 | 83.7 | 84.1 | 84.1 | 84.2 | 84.2 | 84.2 | 84.5  |
| ≥ 900           | 46.4                     | 66.4 | 70.8 | 74.9 | 77.9 | 79.9 | 83.7 | 84.7 | 84.7 | 85.6 | 86.0 | 86.0 | 86.1 | 86.1 | 86.1 | 86.3  |
| ≥ 800           | 46.6                     | 66.8 | 71.4 | 75.6 | 78.7 | 81.0 | 84.8 | 86.1 | 86.1 | 87.2 | 87.6 | 87.6 | 87.7 | 87.7 | 87.7 | 88.0  |
| ≥ 700           | 46.6                     | 67.4 | 72.1 | 76.3 | 79.4 | 82.1 | 86.1 | 87.5 | 87.5 | 88.8 | 89.5 | 89.5 | 89.7 | 89.7 | 89.7 | 90.0  |
| ≥ 600           | 46.7                     | 67.7 | 72.4 | 77.1 | 80.5 | 83.2 | 87.3 | 89.2 | 89.2 | 90.6 | 91.2 | 91.2 | 91.5 | 91.5 | 91.5 | 91.7  |
| ≥ 500           | 46.7                     | 67.8 | 72.7 | 77.3 | 80.7 | 83.5 | 88.3 | 90.6 | 90.6 | 92.0 | 92.9 | 92.9 | 93.1 | 93.1 | 93.1 | 93.4  |
| ≥ 400           | 46.9                     | 67.9 | 72.8 | 77.7 | 81.2 | 84.3 | 89.8 | 92.4 | 92.4 | 94.1 | 95.4 | 95.4 | 95.7 | 95.7 | 95.9 | 96.1  |
| ≥ 300           | 46.9                     | 67.9 | 72.8 | 77.7 | 81.2 | 84.3 | 90.1 | 93.5 | 93.5 | 95.4 | 97.0 | 97.0 | 97.4 | 97.4 | 97.5 | 97.7  |
| ≥ 200           | 46.9                     | 67.9 | 72.8 | 77.7 | 81.2 | 84.3 | 90.1 | 93.5 | 93.5 | 95.7 | 97.6 | 97.6 | 98.2 | 98.2 | 98.5 | 99.1  |
| ≥ 100           | 46.9                     | 67.9 | 72.8 | 77.7 | 81.2 | 84.3 | 90.1 | 93.5 | 93.5 | 95.7 | 97.6 | 97.6 | 98.2 | 98.2 | 98.5 | 99.9  |
| ≥ 0             | 46.9                     | 67.9 | 72.8 | 77.7 | 81.2 | 84.3 | 90.1 | 93.5 | 93.5 | 95.7 | 97.6 | 97.6 | 98.2 | 98.2 | 98.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 798

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-61

NGV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1220-1400

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥.1  |
| NO CEILING      | 15.4                     | 22.3 | 23.4 | 24.2 | 24.7 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 | 24.9 |
| N 20000         | 21.7                     | 28.7 | 29.8 | 30.5 | 31.0 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 |
| N 18000         | 21.7                     | 28.7 | 29.8 | 30.5 | 31.0 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 |
| N 16000         | 21.7                     | 28.8 | 29.9 | 30.7 | 31.2 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 |
| N 14000         | 22.0                     | 29.0 | 30.2 | 30.9 | 31.4 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 |
| N 12000         | 23.0                     | 30.3 | 31.4 | 32.2 | 32.7 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 |
| N 10000         | 23.5                     | 31.8 | 32.2 | 34.2 | 34.7 | 34.9 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| N 9000          | 24.0                     | 32.2 | 33.7 | 34.9 | 35.4 | 35.7 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 |
| N 8000          | 24.2                     | 32.5 | 34.3 | 35.7 | 36.2 | 36.4 | 36.5 | 36.5 | 36.5 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 |
| N 7000          | 25.0                     | 33.7 | 35.5 | 36.9 | 37.4 | 37.7 | 37.8 | 37.8 | 37.8 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 |
| N 6000          | 25.5                     | 34.7 | 36.5 | 37.9 | 38.4 | 38.7 | 38.8 | 38.8 | 38.8 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 | 38.9 |
| N 5000          | 27.4                     | 37.5 | 39.5 | 40.9 | 41.4 | 41.8 | 41.9 | 41.9 | 41.9 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 |
| N 4500          | 29.2                     | 39.5 | 41.6 | 43.1 | 43.6 | 43.9 | 44.1 | 44.1 | 44.1 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 | 44.2 |
| N 4000          | 31.7                     | 43.4 | 45.4 | 47.6 | 48.1 | 48.6 | 48.7 | 48.7 | 48.7 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 | 48.8 |
| N 3500          | 34.0                     | 46.4 | 49.1 | 51.8 | 51.3 | 51.8 | 51.9 | 51.9 | 51.9 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 | 52.1 |
| N 3000          | 34.4                     | 51.8 | 54.4 | 56.3 | 56.8 | 57.4 | 57.6 | 57.6 | 57.6 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 | 57.7 |
| N 2500          | 45.9                     | 61.1 | 64.0 | 65.8 | 66.6 | 67.5 | 67.6 | 67.6 | 67.6 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 | 67.7 |
| N 2000          | 50.3                     | 67.6 | 70.7 | 72.8 | 74.0 | 75.6 | 76.0 | 76.0 | 76.0 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 | 76.1 |
| N 1800          | 62.3                     | 70.2 | 73.3 | 75.7 | 76.8 | 78.5 | 79.0 | 79.0 | 79.0 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1 |
| N 1500          | 63.7                     | 72.3 | 75.7 | 78.1 | 79.2 | 81.1 | 81.7 | 81.7 | 81.7 | 82.1 | 82.1 | 82.1 | 82.1 | 82.1 | 82.1 | 82.1 |
| N 1200          | 54.7                     | 74.8 | 78.6 | 81.2 | 82.4 | 84.4 | 85.2 | 85.4 | 85.4 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 | 86.1 |
| N 1000          | 55.1                     | 75.2 | 79.3 | 82.0 | 83.1 | 85.5 | 86.7 | 87.2 | 87.2 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 | 88.0 |
| N 900           | 55.1                     | 75.5 | 81.1 | 82.9 | 84.1 | 86.7 | 88.0 | 88.6 | 88.6 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 |
| N 800           | 55.2                     | 76.1 | 81.9 | 83.6 | 84.9 | 87.7 | 89.1 | 89.7 | 89.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 | 90.7 |
| N 700           | 55.4                     | 76.8 | 81.9 | 85.0 | 86.4 | 89.5 | 91.5 | 92.2 | 92.2 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 | 93.5 |
| N 600           | 55.4                     | 76.8 | 81.9 | 85.0 | 86.6 | 89.7 | 92.7 | 93.0 | 93.0 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 |
| N 500           | 55.6                     | 77.1 | 82.2 | 85.4 | 87.0 | 90.1 | 93.1 | 94.9 | 94.9 | 96.5 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 | 96.7 |
| N 400           | 55.6                     | 77.1 | 82.4 | 85.7 | 87.4 | 90.6 | 93.7 | 95.6 | 95.6 | 97.7 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 |
| N 300           | 55.6                     | 77.1 | 82.5 | 85.9 | 87.5 | 90.7 | 94.4 | 96.4 | 96.4 | 98.5 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 | 98.9 |
| N 200           | 55.6                     | 77.1 | 82.5 | 85.9 | 87.5 | 90.7 | 94.5 | 96.7 | 96.7 | 98.9 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 | 99.2 |
| N 100           | 55.6                     | 77.1 | 82.5 | 85.9 | 87.5 | 90.7 | 94.5 | 96.7 | 96.7 | 98.9 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 |
| N 0             | 55.6                     | 77.1 | 82.5 | 85.9 | 87.5 | 90.7 | 94.5 | 96.7 | 96.7 | 98.9 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 |

TOTAL NUMBER OF OBSERVATIONS

799



CLIMATE CLIMATOLOGY BRANCH  
OFFICE  
AT WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS LST

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.7 | ≥1.4 | ≥1   | ≥.7  | ≥.5  | ≥.3  | ≥.16 | ≥.1  | ≥0   |
| NO CEILING      | 29.8                     | 25.6 | 26.3 | 26.4 | 26.4 | 26.5 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 | 26.6 |
| ≥ 20000         | 25.1                     | 32.6 | 33.3 | 33.5 | 33.5 | 33.6 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7 |
| ≥ 18000         | 25.1                     | 32.8 | 33.6 | 33.7 | 33.7 | 33.8 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| ≥ 16000         | 25.1                     | 32.8 | 33.6 | 33.7 | 33.7 | 33.8 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 | 34.0 |
| ≥ 14000         | 25.1                     | 33.7 | 34.5 | 34.6 | 34.6 | 34.7 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| ≥ 12000         | 27.3                     | 35.2 | 36.1 | 36.2 | 36.2 | 36.4 | 36.5 | 36.5 | 36.5 | 36.5 | 36.5 | 36.5 | 36.5 | 36.5 | 36.5 | 36.5 |
| ≥ 10000         | 29.3                     | 37.9 | 39.0 | 39.3 | 39.3 | 39.5 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 | 39.8 |
| ≥ 9000          | 29.8                     | 38.8 | 40.0 | 40.3 | 40.3 | 40.5 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 | 40.8 |
| ≥ 8000          | 30.3                     | 40.4 | 41.6 | 42.0 | 42.0 | 42.3 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 |
| ≥ 7000          | 31.7                     | 41.7 | 43.1 | 43.3 | 43.3 | 43.6 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 | 43.8 |
| ≥ 6000          | 32.4                     | 43.2 | 44.6 | 44.8 | 44.9 | 45.3 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 |
| ≥ 5000          | 33.9                     | 45.2 | 46.6 | 46.8 | 47.0 | 47.6 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 | 47.9 |
| ≥ 4500          | 35.7                     | 47.3 | 48.9 | 49.1 | 49.2 | 49.9 | 50.0 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 | 50.1 |
| ≥ 4000          | 38.8                     | 51.5 | 53.2 | 53.5 | 53.7 | 54.3 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 | 54.5 |
| ≥ 3500          | 41.7                     | 55.7 | 57.3 | 57.7 | 57.8 | 58.5 | 58.7 | 58.7 | 58.7 | 58.7 | 58.7 | 58.7 | 58.7 | 58.7 | 58.7 | 58.7 |
| ≥ 3000          | 46.5                     | 60.7 | 62.6 | 63.1 | 63.3 | 63.9 | 64.1 | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 |
| ≥ 2500          | 52.1                     | 68.7 | 70.6 | 71.2 | 72.0 | 73.1 | 73.4 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 |
| ≥ 2000          | 55.3                     | 74.4 | 76.8 | 77.9 | 78.7 | 80.1 | 80.4 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 | 80.7 |
| ≥ 1800          | 57.3                     | 76.6 | 79.2 | 80.4 | 81.3 | 82.7 | 83.3 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 |
| ≥ 1500          | 58.3                     | 78.3 | 81.6 | 82.8 | 83.7 | 85.1 | 86.0 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 | 86.4 |
| ≥ 1200          | 58.7                     | 79.5 | 82.8 | 84.5 | 85.4 | 87.0 | 88.4 | 88.9 | 88.9 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 | 89.1 |
| ≥ 1000          | 59.1                     | 81.2 | 83.6 | 85.6 | 86.5 | 88.3 | 89.6 | 90.2 | 90.2 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 | 90.8 |
| ≥ 900           | 59.2                     | 81.3 | 83.8 | 85.9 | 86.7 | 88.5 | 89.9 | 90.5 | 90.5 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 |
| ≥ 800           | 59.5                     | 81.1 | 84.6 | 86.7 | 87.6 | 89.8 | 91.4 | 92.3 | 92.3 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 |
| ≥ 700           | 59.6                     | 81.4 | 85.1 | 87.2 | 88.1 | 91.3 | 93.3 | 94.3 | 94.3 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 | 95.2 |
| ≥ 600           | 59.7                     | 81.6 | 85.4 | 87.6 | 88.5 | 92.3 | 94.4 | 95.7 | 95.7 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 | 96.6 |
| ≥ 500           | 59.7                     | 81.8 | 85.7 | 88.0 | 89.0 | 92.8 | 95.3 | 96.7 | 96.7 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 | 98.1 |
| ≥ 400           | 59.7                     | 81.8 | 85.7 | 88.3 | 89.5 | 93.4 | 96.0 | 97.3 | 97.3 | 99.0 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 |
| ≥ 300           | 59.7                     | 81.8 | 85.7 | 88.3 | 89.5 | 93.4 | 96.0 | 97.6 | 97.6 | 99.2 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 |
| ≥ 200           | 59.7                     | 81.8 | 85.7 | 88.3 | 89.5 | 93.4 | 96.0 | 97.6 | 97.6 | 99.2 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 |
| ≥ 100           | 59.7                     | 81.8 | 85.7 | 88.3 | 89.5 | 93.4 | 96.0 | 97.6 | 97.6 | 99.2 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 |
| ≥ 0             | 59.7                     | 81.8 | 85.7 | 88.3 | 89.5 | 93.4 | 96.0 | 97.6 | 97.6 | 99.2 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6 |

TOTAL NUMBER OF OBSERVATIONS 792

GLOBAL CLIMATOLOGY BRANCH  
USAF ETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION  
0 221

YOUNGSTOWN MAP OH  
STATION NAME

73-91  
YEARS

NCV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1850-2000  
PERIOD

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |       |      |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥.5  | ≥.25 | ≥.15 | ≥.1  | ≥.05 | ≥.025 | ≥0   |
| NO CEILING      | 22.1                       | 27.4 | 27.6 | 28.2 | 28.3 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7  | 28.7 |
| ≥ 20000         | 26.3                       | 33.3 | 33.5 | 34.5 | 34.7 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2  | 35.2 |
| ≥ 18000         | 26.6                       | 33.5 | 34.2 | 34.9 | 35.0 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5  | 35.5 |
| ≥ 16000         | 26.6                       | 33.5 | 34.2 | 34.9 | 35.0 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5  | 35.5 |
| ≥ 14000         | 27.4                       | 34.9 | 35.4 | 36.2 | 36.3 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8 | 36.8  | 36.8 |
| ≥ 12000         | 28.3                       | 36.3 | 37.0 | 37.9 | 38.0 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5  | 38.5 |
| ≥ 10000         | 31.2                       | 39.4 | 40.1 | 41.0 | 41.1 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 42.0  | 42.0 |
| ≥ 9000          | 31.7                       | 40.0 | 40.8 | 41.6 | 41.8 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6  | 42.6 |
| ≥ 8000          | 32.9                       | 41.8 | 42.5 | 43.4 | 43.5 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4 | 44.4  | 44.4 |
| ≥ 7000          | 34.2                       | 44.1 | 45.0 | 45.9 | 46.0 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9 | 46.9  | 46.9 |
| ≥ 6000          | 34.7                       | 44.9 | 45.9 | 46.8 | 46.9 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8 | 47.8  | 47.8 |
| ≥ 5000          | 36.2                       | 47.5 | 48.6 | 49.5 | 49.8 | 50.7 | 50.9 | 50.9 | 50.9 | 50.9 | 50.9 | 50.9 | 50.9 | 50.9 | 50.9  | 50.9 |
| ≥ 4500          | 37.7                       | 49.1 | 51.2 | 51.4 | 51.6 | 52.6 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7 | 52.7  | 52.7 |
| ≥ 4000          | 41.5                       | 54.1 | 55.4 | 56.5 | 56.7 | 57.7 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9 | 57.9  | 57.9 |
| ≥ 3500          | 45.4                       | 59.4 | 60.6 | 62.1 | 62.3 | 63.3 | 63.5 | 63.5 | 63.5 | 63.5 | 63.5 | 63.5 | 63.5 | 63.5 | 63.5  | 63.5 |
| ≥ 3000          | 50.1                       | 66.1 | 67.3 | 68.6 | 69.1 | 70.1 | 70.2 | 70.2 | 70.2 | 70.2 | 70.2 | 70.2 | 70.2 | 70.2 | 70.2  | 70.2 |
| ≥ 2500          | 52.9                       | 71.2 | 72.9 | 74.4 | 74.9 | 76.1 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2 | 76.2  | 76.2 |
| ≥ 2000          | 55.1                       | 74.2 | 76.4 | 78.6 | 79.4 | 80.7 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8 | 80.8  | 80.8 |
| ≥ 1800          | 56.5                       | 76.4 | 78.8 | 81.5 | 82.4 | 83.7 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8 | 83.8  | 83.8 |
| ≥ 1500          | 57.1                       | 77.7 | 80.2 | 83.3 | 84.2 | 85.5 | 85.7 | 85.7 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8 | 85.8  | 85.8 |
| ≥ 1200          | 58.2                       | 81.4 | 83.4 | 86.8 | 87.8 | 89.3 | 89.4 | 89.4 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5  | 89.5 |
| ≥ 1000          | 58.2                       | 81.4 | 84.7 | 88.4 | 89.4 | 90.9 | 91.0 | 91.3 | 91.4 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5 | 91.5  | 91.5 |
| ≥ 900           | 58.2                       | 81.5 | 84.9 | 88.8 | 89.8 | 91.3 | 91.4 | 91.6 | 91.8 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9  | 91.9 |
| ≥ 800           | 58.5                       | 82.5 | 85.9 | 90.1 | 91.1 | 92.6 | 92.8 | 93.1 | 93.3 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4 | 93.4  | 93.4 |
| ≥ 700           | 58.5                       | 82.9 | 86.4 | 90.8 | 91.8 | 94.0 | 94.4 | 94.9 | 95.0 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1  | 95.1 |
| ≥ 600           | 58.5                       | 83.0 | 86.5 | 91.3 | 92.4 | 94.6 | 95.0 | 95.6 | 95.8 | 95.9 | 96.1 | 96.1 | 96.1 | 96.1 | 96.1  | 96.1 |
| ≥ 500           | 58.7                       | 83.5 | 87.3 | 92.3 | 93.4 | 95.6 | 96.0 | 96.8 | 96.9 | 97.0 | 97.3 | 97.3 | 97.3 | 97.3 | 97.3  | 97.3 |
| ≥ 400           | 58.7                       | 83.7 | 87.5 | 92.8 | 94.1 | 96.4 | 97.1 | 98.0 | 98.1 | 98.5 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8  | 98.8 |
| ≥ 300           | 58.9                       | 83.9 | 87.8 | 93.1 | 94.8 | 97.1 | 98.0 | 98.9 | 99.0 | 99.4 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 |
| ≥ 200           | 58.9                       | 83.9 | 87.8 | 93.1 | 94.8 | 97.1 | 98.0 | 98.9 | 99.0 | 99.4 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 |
| ≥ 100           | 58.9                       | 83.9 | 87.8 | 93.1 | 94.8 | 97.1 | 98.0 | 98.9 | 99.0 | 99.4 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 |
| ≥ 0             | 58.9                       | 83.9 | 87.8 | 93.1 | 94.8 | 97.1 | 98.0 | 98.9 | 99.0 | 99.4 | 99.6 | 99.6 | 99.6 | 99.6 | 99.6  | 99.6 |

TOTAL NUMBER OF OBSERVATIONS 802

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

25 YOUNGSTOWN MAP OH  
STATION

73-81

NOV  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |      |      |      |      |       |       |       |       |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|------|------|------|------|-------|-------|-------|-------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1  | ≥ .5 | ≥ .4 | ≥ .3 | ≥ .25 | ≥ .2  | ≥ .1  | ≥ 0   |
| NO CEILING      | 21.3                       | 28.3 | 29.3 | 28.4 | 28.9 | 29.2  | 29.2 | 29.2  | 29.2 | 29.3 | 29.3 | 29.3 | 29.3  | 29.3  | 29.3  | 29.3  |
| ≥ 20000         | 23.2                       | 31.4 | 32.2 | 32.3 | 32.8 | 33.1  | 33.2 | 33.6  | 33.6 | 33.7 | 33.7 | 33.7 | 33.7  | 33.7  | 33.7  | 33.7  |
| ≥ 18000         | 23.2                       | 31.4 | 32.2 | 32.3 | 32.8 | 33.1  | 33.2 | 33.6  | 33.6 | 33.7 | 33.7 | 33.7 | 33.7  | 33.7  | 33.7  | 33.7  |
| ≥ 16000         | 23.2                       | 31.4 | 32.2 | 32.3 | 32.8 | 33.1  | 33.2 | 33.6  | 33.6 | 33.7 | 33.7 | 33.7 | 33.7  | 33.7  | 33.7  | 33.7  |
| ≥ 14000         | 23.3                       | 31.7 | 32.4 | 32.6 | 33.1 | 33.3  | 33.5 | 33.8  | 33.8 | 34.0 | 34.0 | 34.0 | 34.0  | 34.0  | 34.0  | 34.0  |
| ≥ 12000         | 24.1                       | 33.6 | 34.3 | 34.5 | 35.0 | 35.2  | 35.4 | 35.7  | 35.7 | 35.9 | 35.9 | 35.9 | 35.9  | 35.9  | 35.9  | 35.9  |
| ≥ 10000         | 27.0                       | 37.9 | 38.7 | 38.8 | 39.3 | 39.5  | 39.7 | 40.1  | 40.1 | 40.2 | 40.2 | 40.2 | 40.2  | 40.2  | 40.2  | 40.2  |
| ≥ 9000          | 27.6                       | 38.5 | 39.3 | 39.4 | 39.9 | 40.2  | 40.3 | 40.7  | 40.7 | 40.8 | 40.8 | 40.8 | 40.8  | 40.8  | 40.8  | 40.8  |
| ≥ 8000          | 28.6                       | 40.1 | 40.9 | 40.9 | 41.4 | 41.7  | 41.8 | 42.2  | 42.2 | 42.3 | 42.3 | 42.3 | 42.3  | 42.3  | 42.3  | 42.3  |
| ≥ 7000          | 30.2                       | 42.0 | 42.8 | 43.0 | 43.5 | 43.7  | 43.9 | 44.2  | 44.2 | 44.4 | 44.4 | 44.4 | 44.4  | 44.4  | 44.4  | 44.4  |
| ≥ 6000          | 31.1                       | 43.5 | 44.4 | 44.5 | 45.0 | 45.4  | 45.5 | 45.9  | 45.9 | 46.0 | 46.0 | 46.0 | 46.0  | 46.0  | 46.0  | 46.0  |
| ≥ 5000          | 33.7                       | 45.8 | 46.6 | 46.8 | 47.3 | 47.8  | 47.9 | 48.3  | 48.3 | 48.4 | 48.4 | 48.4 | 48.4  | 48.4  | 48.4  | 48.4  |
| ≥ 4500          | 34.9                       | 48.5 | 49.4 | 49.6 | 50.1 | 50.6  | 50.7 | 51.1  | 51.1 | 51.2 | 51.2 | 51.2 | 51.2  | 51.2  | 51.2  | 51.2  |
| ≥ 4000          | 38.1                       | 53.0 | 54.0 | 54.2 | 54.8 | 55.5  | 55.6 | 56.0  | 56.0 | 56.1 | 56.1 | 56.1 | 56.1  | 56.1  | 56.1  | 56.1  |
| ≥ 3500          | 40.9                       | 57.7 | 58.7 | 59.2 | 59.7 | 60.5  | 60.6 | 61.0  | 61.0 | 61.1 | 61.1 | 61.1 | 61.1  | 61.1  | 61.1  | 61.1  |
| ≥ 3000          | 47.3                       | 65.5 | 66.7 | 67.3 | 67.8 | 68.6  | 68.7 | 69.1  | 69.1 | 69.2 | 69.2 | 69.2 | 69.2  | 69.2  | 69.2  | 69.2  |
| ≥ 2500          | 50.4                       | 71.5 | 72.8 | 73.5 | 74.0 | 74.8  | 74.9 | 75.3  | 75.3 | 75.4 | 75.4 | 75.4 | 75.4  | 75.4  | 75.4  | 75.4  |
| ≥ 2000          | 52.0                       | 74.7 | 76.0 | 77.3 | 77.8 | 78.7  | 79.0 | 79.3  | 79.3 | 79.5 | 79.5 | 79.5 | 79.5  | 79.5  | 79.5  | 79.5  |
| ≥ 1800          | 52.6                       | 76.4 | 77.9 | 79.5 | 80.0 | 80.9  | 81.2 | 81.6  | 81.6 | 81.7 | 81.7 | 81.7 | 81.7  | 81.7  | 81.7  | 81.7  |
| ≥ 1500          | 53.9                       | 78.5 | 80.1 | 81.7 | 82.4 | 83.3  | 83.8 | 84.3  | 84.3 | 84.5 | 84.5 | 84.5 | 84.5  | 84.5  | 84.5  | 84.5  |
| ≥ 1200          | 55.7                       | 80.7 | 82.5 | 84.4 | 85.0 | 86.1  | 86.7 | 87.2  | 87.2 | 87.5 | 87.5 | 87.5 | 87.6  | 87.6  | 87.6  | 87.6  |
| ≥ 1000          | 55.4                       | 82.0 | 84.3 | 86.6 | 87.3 | 88.3  | 89.1 | 89.6  | 89.6 | 89.9 | 89.9 | 89.9 | 90.0  | 90.0  | 90.0  | 90.0  |
| ≥ 900           | 55.6                       | 82.5 | 85.3 | 87.6 | 88.3 | 89.4  | 90.2 | 90.7  | 90.7 | 91.0 | 91.0 | 91.0 | 91.1  | 91.1  | 91.1  | 91.1  |
| ≥ 800           | 55.9                       | 82.9 | 85.8 | 89.1 | 89.9 | 90.9  | 92.0 | 92.5  | 92.5 | 92.8 | 92.8 | 92.8 | 92.9  | 92.9  | 92.9  | 92.9  |
| ≥ 700           | 56.1                       | 83.1 | 86.1 | 89.7 | 90.6 | 92.1  | 93.3 | 93.8  | 93.8 | 94.0 | 94.0 | 94.0 | 94.2  | 94.2  | 94.2  | 94.2  |
| ≥ 600           | 56.3                       | 83.7 | 86.7 | 90.7 | 91.6 | 93.2  | 94.6 | 95.2  | 95.2 | 95.4 | 95.4 | 95.4 | 95.6  | 95.6  | 95.6  | 95.6  |
| ≥ 500           | 56.5                       | 84.5 | 87.7 | 91.9 | 92.8 | 94.3  | 95.9 | 97.0  | 97.0 | 97.2 | 97.2 | 97.2 | 97.3  | 97.3  | 97.3  | 97.3  |
| ≥ 400           | 56.5                       | 85.0 | 88.3 | 92.8 | 94.0 | 95.8  | 97.5 | 98.5  | 98.5 | 98.7 | 98.7 | 98.7 | 98.9  | 98.9  | 98.9  | 98.9  |
| ≥ 300           | 56.5                       | 85.2 | 88.5 | 93.0 | 94.3 | 96.1  | 98.0 | 99.2  | 99.2 | 99.5 | 99.5 | 99.5 | 99.6  | 99.6  | 99.6  | 99.6  |
| ≥ 200           | 56.5                       | 85.2 | 88.5 | 93.0 | 94.4 | 96.2  | 98.1 | 99.4  | 99.4 | 99.6 | 99.6 | 99.6 | 99.7  | 99.7  | 99.7  | 99.7  |
| ≥ 100           | 56.5                       | 85.2 | 88.5 | 93.0 | 94.4 | 96.3  | 98.4 | 99.6  | 99.6 | 99.9 | 99.9 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 |
| ≥ 0             | 56.5                       | 85.2 | 88.5 | 93.0 | 94.4 | 96.3  | 98.4 | 99.6  | 99.6 | 99.9 | 99.9 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 789

ALPHAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

12230 YOUNGSTOWN MAP OH

73-81

NOV

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS

| CEILING<br>FEET | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥8   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.2 | ≥1   | ≥.8  | ≥.6  | ≥.5  | ≥.4  | ≥.3  | ≥.2   |
| NO CEILING      | 17.7                       | 24.4 | 25.3 | 26.1 | 26.6 | 26.9 | 27.2 | 27.2 | 27.2 | 27.3 | 27.4 | 27.4 | 27.5 | 27.5 | 27.5 | 27.7  |
| ≥ 20000         | 21.2                       | 28.9 | 30.1 | 31.0 | 31.4 | 31.8 | 32.1 | 32.2 | 32.2 | 32.3 | 32.4 | 32.4 | 32.5 | 32.5 | 32.5 | 32.7  |
| ≥ 18000         | 21.3                       | 29.0 | 30.3 | 31.1 | 31.6 | 31.9 | 32.2 | 32.3 | 32.3 | 32.5 | 32.5 | 32.5 | 32.6 | 32.6 | 32.7 | 32.8  |
| ≥ 16000         | 21.3                       | 29.1 | 30.3 | 31.2 | 31.6 | 32.0 | 32.3 | 32.4 | 32.4 | 32.5 | 32.6 | 32.6 | 32.7 | 32.7 | 32.7 | 32.8  |
| ≥ 14000         | 21.7                       | 29.5 | 30.8 | 31.6 | 32.1 | 32.5 | 32.7 | 32.8 | 32.8 | 33.0 | 33.0 | 33.0 | 33.1 | 33.1 | 33.2 | 33.3  |
| ≥ 12000         | 22.5                       | 31.0 | 32.4 | 33.3 | 33.8 | 34.1 | 34.4 | 34.5 | 34.5 | 34.6 | 34.7 | 34.7 | 34.8 | 34.8 | 34.9 | 35.0  |
| ≥ 10000         | 24.3                       | 33.7 | 35.2 | 36.2 | 36.7 | 37.1 | 37.4 | 37.5 | 37.5 | 37.7 | 37.8 | 37.8 | 37.9 | 37.9 | 37.9 | 38.0  |
| ≥ 9000          | 24.5                       | 34.1 | 35.7 | 36.7 | 37.2 | 37.6 | 37.9 | 38.0 | 38.0 | 38.2 | 38.3 | 38.3 | 38.4 | 38.4 | 38.4 | 38.5  |
| ≥ 8000          | 25.6                       | 35.8 | 37.4 | 38.4 | 38.9 | 39.4 | 39.7 | 39.8 | 39.8 | 39.9 | 40.0 | 40.0 | 40.1 | 40.1 | 40.2 | 40.3  |
| ≥ 7000          | 26.3                       | 37.0 | 38.6 | 39.7 | 40.2 | 40.7 | 41.1 | 41.2 | 41.2 | 41.3 | 41.4 | 41.4 | 41.5 | 41.5 | 41.6 | 41.7  |
| ≥ 6000          | 27.0                       | 38.1 | 39.9 | 41.0 | 41.5 | 42.0 | 42.4 | 42.5 | 42.5 | 42.6 | 42.7 | 42.7 | 42.8 | 42.8 | 42.9 | 43.0  |
| ≥ 5000          | 29.1                       | 41.2 | 43.1 | 44.2 | 44.8 | 45.4 | 45.8 | 45.9 | 45.9 | 46.0 | 46.1 | 46.1 | 46.2 | 46.2 | 46.3 | 46.4  |
| ≥ 4500          | 30.5                       | 43.0 | 45.0 | 46.3 | 46.8 | 47.4 | 47.8 | 48.0 | 48.0 | 48.1 | 48.2 | 48.2 | 48.3 | 48.3 | 48.3 | 48.5  |
| ≥ 4000          | 33.5                       | 47.1 | 49.3 | 50.6 | 51.2 | 51.8 | 52.3 | 52.4 | 52.4 | 52.6 | 52.6 | 52.7 | 52.7 | 52.7 | 52.8 | 52.9  |
| ≥ 3500          | 36.4                       | 51.3 | 53.6 | 55.1 | 55.7 | 56.3 | 56.8 | 56.9 | 56.9 | 57.1 | 57.2 | 57.2 | 57.3 | 57.3 | 57.3 | 57.4  |
| ≥ 3000          | 40.5                       | 56.6 | 59.1 | 60.7 | 61.3 | 62.0 | 62.5 | 62.6 | 62.6 | 62.8 | 62.9 | 62.9 | 63.0 | 63.0 | 63.1 | 63.2  |
| ≥ 2500          | 44.7                       | 62.7 | 65.4 | 67.2 | 68.0 | 68.8 | 69.4 | 69.6 | 69.6 | 69.7 | 69.8 | 69.8 | 70.0 | 70.0 | 70.0 | 70.1  |
| ≥ 2000          | 48.7                       | 67.5 | 70.5 | 72.6 | 73.6 | 74.7 | 75.3 | 75.6 | 75.6 | 75.7 | 75.9 | 75.9 | 76.0 | 76.0 | 76.0 | 76.2  |
| ≥ 1800          | 49.2                       | 69.5 | 72.7 | 75.0 | 76.1 | 77.2 | 77.9 | 78.2 | 78.2 | 78.3 | 78.5 | 78.5 | 78.6 | 78.6 | 78.6 | 78.8  |
| ≥ 1500          | 50.3                       | 71.6 | 74.9 | 77.4 | 78.5 | 79.7 | 80.6 | 80.9 | 80.9 | 81.1 | 81.3 | 81.3 | 81.4 | 81.4 | 81.5 | 81.6  |
| ≥ 1200          | 51.5                       | 74.2 | 77.9 | 80.8 | 82.0 | 83.3 | 84.5 | 84.8 | 84.8 | 85.1 | 85.3 | 85.3 | 85.5 | 85.5 | 85.5 | 85.6  |
| ≥ 1000          | 52.0                       | 75.6 | 79.6 | 82.8 | 84.0 | 85.5 | 86.8 | 87.3 | 87.3 | 87.7 | 87.9 | 87.9 | 88.1 | 88.1 | 88.1 | 88.2  |
| ≥ 900           | 52.2                       | 76.0 | 80.3 | 83.5 | 84.8 | 86.3 | 87.7 | 88.3 | 88.3 | 88.8 | 89.0 | 89.0 | 89.1 | 89.1 | 89.2 | 89.3  |
| ≥ 800           | 52.3                       | 76.7 | 81.1 | 84.7 | 86.0 | 87.6 | 89.2 | 89.9 | 89.9 | 90.4 | 90.7 | 90.7 | 90.8 | 90.8 | 90.9 | 91.0  |
| ≥ 700           | 52.5                       | 77.6 | 82.1 | 85.8 | 87.3 | 89.3 | 91.1 | 91.9 | 91.9 | 92.5 | 92.8 | 92.8 | 93.0 | 93.0 | 93.1 | 93.2  |
| ≥ 600           | 52.5                       | 77.8 | 82.5 | 86.5 | 88.1 | 90.2 | 92.1 | 93.0 | 93.1 | 93.7 | 94.1 | 94.1 | 94.3 | 94.3 | 94.4 | 94.5  |
| ≥ 500           | 52.6                       | 78.2 | 83.7 | 87.2 | 88.8 | 91.0 | 93.3 | 94.4 | 94.4 | 95.2 | 95.7 | 95.7 | 95.9 | 95.9 | 95.9 | 96.0  |
| ≥ 400           | 52.7                       | 78.3 | 83.2 | 87.7 | 89.5 | 91.9 | 94.4 | 95.6 | 95.6 | 96.6 | 97.1 | 97.1 | 97.4 | 97.4 | 97.4 | 97.6  |
| ≥ 300           | 52.7                       | 78.4 | 83.3 | 88.0 | 89.8 | 92.3 | 94.9 | 96.3 | 96.4 | 97.4 | 98.0 | 98.0 | 98.3 | 98.3 | 98.4 | 98.5  |
| ≥ 200           | 52.7                       | 78.4 | 83.3 | 88.0 | 89.9 | 92.3 | 95.0 | 96.5 | 96.5 | 97.7 | 98.4 | 98.4 | 98.8 | 98.8 | 98.9 | 99.2  |
| ≥ 100           | 52.7                       | 78.4 | 83.3 | 88.0 | 89.9 | 92.3 | 95.0 | 96.5 | 96.6 | 97.7 | 98.4 | 98.5 | 98.9 | 98.9 | 99.2 | 99.6  |
| ≥ 0             | 52.7                       | 78.4 | 83.3 | 88.0 | 89.9 | 92.3 | 95.0 | 96.5 | 96.6 | 97.7 | 98.4 | 98.5 | 98.9 | 98.9 | 99.3 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 6348

GLOBAL CLIMATOLOGY BRANCH  
ETAC  
AF WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

2020 YOUNGSTOWN MAP OH  
STATION

73-81  
YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0000-0200  
HOURS LST

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.5  | ≥.4  | ≥.3  | ≥.25 | ≥.2  | ≥.1   |
| NO CEILING      | 13.7                     | 18.4 | 19.1 | 19.1 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2 | 19.2  |
| ≥ 20000         | 15.7                     | 21.5 | 22.2 | 22.3 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4  |
| IV 18000        | 15.7                     | 21.5 | 22.2 | 22.3 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4  |
| IV 16000        | 15.7                     | 21.5 | 22.2 | 22.3 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4  |
| IV 14000        | 15.3                     | 22.3 | 22.9 | 23.0 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1  |
| IV 12000        | 17.1                     | 23.1 | 23.7 | 23.8 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0 | 24.0  |
| IV 10000        | 19.6                     | 26.4 | 27.1 | 27.2 | 27.4 | 27.4 | 27.4 | 27.4 | 27.4 | 27.4 | 27.4 | 27.4 | 27.4 | 27.4 | 27.4 | 27.4  |
| IV 9000         | 20.0                     | 26.8 | 27.5 | 27.6 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7 | 27.7  |
| IV 8000         | 22.4                     | 29.5 | 30.3 | 30.5 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6  |
| IV 7000         | 24.2                     | 31.4 | 32.1 | 32.3 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4  |
| IV 6000         | 24.5                     | 31.7 | 32.4 | 32.9 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1  |
| IV 5000         | 26.4                     | 34.4 | 35.1 | 35.7 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8  |
| IV 4500         | 27.5                     | 35.8 | 36.6 | 37.2 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3 | 37.3  |
| IV 4000         | 28.8                     | 37.5 | 38.3 | 38.9 | 39.0 | 39.1 | 39.1 | 39.1 | 39.1 | 39.1 | 39.1 | 39.1 | 39.1 | 39.1 | 39.1 | 39.1  |
| IV 3500         | 30.0                     | 39.6 | 40.7 | 41.3 | 41.4 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5 | 41.5  |
| IV 3000         | 32.3                     | 43.7 | 45.2 | 46.2 | 46.4 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5  |
| IV 2500         | 35.3                     | 48.4 | 50.8 | 52.1 | 52.2 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3 | 52.3  |
| IV 2000         | 39.2                     | 55.8 | 59.0 | 60.8 | 61.0 | 61.3 | 61.4 | 61.4 | 61.4 | 61.4 | 61.4 | 61.4 | 61.4 | 61.4 | 61.4 | 61.4  |
| IV 1800         | 40.2                     | 58.1 | 62.0 | 64.0 | 64.4 | 64.6 | 64.8 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0  |
| IV 1500         | 41.5                     | 60.9 | 65.3 | 68.0 | 68.5 | 68.9 | 69.4 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9 | 69.9  |
| IV 1200         | 42.5                     | 65.3 | 70.5 | 74.1 | 74.7 | 75.1 | 76.6 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2 | 77.2  |
| IV 1000         | 43.5                     | 67.6 | 73.2 | 77.2 | 78.0 | 78.3 | 80.0 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6 | 80.6  |
| IV 900          | 43.9                     | 69.4 | 74.2 | 78.3 | 79.2 | 79.5 | 81.2 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8  |
| IV 800          | 43.8                     | 68.8 | 74.8 | 79.3 | 80.1 | 80.5 | 82.2 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8 | 82.8  |
| IV 700          | 44.1                     | 71.5 | 76.9 | 81.4 | 82.2 | 82.7 | 84.4 | 85.2 | 85.4 | 85.4 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5 | 85.5  |
| IV 600          | 44.2                     | 71.8 | 78.2 | 83.4 | 84.5 | 85.1 | 87.0 | 88.5 | 88.7 | 88.7 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9 | 88.9  |
| IV 500          | 44.2                     | 71.8 | 78.5 | 84.1 | 86.0 | 86.8 | 89.1 | 91.0 | 91.3 | 91.3 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9  |
| IV 400          | 44.2                     | 72.0 | 78.9 | 85.0 | 87.0 | 88.1 | 90.4 | 92.5 | 92.7 | 93.0 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6  |
| IV 300          | 44.2                     | 72.3 | 79.2 | 85.7 | 88.7 | 90.0 | 92.6 | 95.0 | 95.3 | 95.5 | 96.1 | 96.1 | 96.2 | 96.2 | 96.2 | 96.4  |
| IV 200          | 44.2                     | 72.3 | 79.2 | 85.8 | 89.0 | 90.2 | 93.1 | 96.0 | 96.2 | 96.6 | 97.3 | 97.3 | 97.5 | 97.5 | 97.7 | 98.1  |
| IV 100          | 44.2                     | 72.3 | 79.2 | 85.8 | 89.0 | 90.3 | 93.2 | 96.2 | 96.5 | 97.0 | 98.1 | 98.1 | 98.5 | 98.9 | 99.3 | 99.8  |
| IV 0            | 44.2                     | 72.3 | 79.2 | 85.8 | 89.0 | 90.3 | 93.2 | 96.2 | 96.5 | 97.0 | 98.1 | 98.1 | 98.5 | 98.9 | 99.3 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 826

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

73-81  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

DEC  
MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

0300-0500  
LOCAL TIME

| CEILING<br>(FEET) | VISIBILITY (STATUTE MILES) |      |      |      |      |      |      |      |      |      |      |      |      |        |      |       |
|-------------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|------|-------|
|                   | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2½ | ≥ 2  | ≥ 1½ | ≥ 1¼ | ≥ 1  | ≥ ¾  | ≥ ½  | ≥ ¼  | ≥ 1/10 | ≥ .  | ≥ 0   |
| NO CEILING        | 12.3                       | 16.7 | 17.1 | 17.8 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5 | 18.5   | 18.5 | 18.5  |
| ≥ 20000           | 13.7                       | 19.1 | 19.4 | 20.2 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8   | 20.8 | 20.8  |
| ≥ 18000           | 13.9                       | 19.1 | 19.4 | 20.2 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8   | 20.8 | 20.8  |
| ≥ 16000           | 13.9                       | 19.1 | 19.4 | 20.2 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8   | 20.8 | 20.8  |
| ≥ 14000           | 15.0                       | 21.3 | 21.7 | 21.4 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0 | 22.0   | 22.0 | 22.0  |
| ≥ 12000           | 15.3                       | 20.8 | 21.2 | 22.0 | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 | 22.6   | 22.6 | 22.6  |
| ≥ 10000           | 17.8                       | 23.9 | 24.4 | 25.2 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0   | 26.0 | 26.0  |
| ≥ 9000            | 18.0                       | 24.0 | 24.5 | 25.3 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1   | 26.1 | 26.1  |
| ≥ 8000            | 20.4                       | 27.3 | 27.8 | 28.8 | 29.5 | 29.5 | 29.8 | 29.8 | 29.8 | 29.9 | 29.9 | 29.9 | 29.9 | 29.9   | 29.9 | 29.9  |
| ≥ 7000            | 21.9                       | 29.0 | 29.5 | 30.5 | 31.2 | 31.2 | 31.5 | 31.5 | 31.5 | 31.6 | 31.6 | 31.6 | 31.6 | 31.6   | 31.6 | 31.6  |
| ≥ 6000            | 22.4                       | 29.9 | 30.4 | 31.4 | 32.1 | 32.1 | 32.3 | 32.3 | 32.3 | 32.5 | 32.5 | 32.5 | 32.5 | 32.5   | 32.5 | 32.5  |
| ≥ 5000            | 23.7                       | 32.3 | 33.1 | 34.3 | 35.1 | 35.1 | 35.3 | 35.3 | 35.3 | 35.4 | 35.4 | 35.4 | 35.4 | 35.4   | 35.4 | 35.4  |
| ≥ 4500            | 24.2                       | 33.0 | 33.8 | 35.1 | 35.8 | 35.8 | 36.0 | 36.0 | 36.0 | 36.2 | 36.2 | 36.2 | 36.2 | 36.2   | 36.2 | 36.2  |
| ≥ 4000            | 25.5                       | 35.3 | 36.5 | 37.8 | 38.6 | 38.6 | 38.9 | 38.9 | 38.9 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0   | 39.0 | 39.0  |
| ≥ 3500            | 27.1                       | 38.1 | 39.6 | 41.1 | 42.2 | 42.2 | 42.4 | 42.4 | 42.4 | 42.6 | 42.6 | 42.6 | 42.6 | 42.6   | 42.6 | 42.6  |
| ≥ 3000            | 28.9                       | 41.8 | 43.7 | 45.4 | 46.6 | 46.6 | 47.7 | 47.0 | 47.0 | 47.1 | 47.1 | 47.1 | 47.1 | 47.1   | 47.1 | 47.1  |
| ≥ 2500            | 32.2                       | 47.7 | 50.9 | 53.0 | 54.2 | 54.2 | 54.6 | 54.6 | 54.6 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7   | 54.7 | 54.7  |
| ≥ 2000            | 36.3                       | 55.2 | 58.9 | 61.4 | 62.7 | 62.7 | 63.1 | 63.1 | 63.1 | 63.2 | 63.2 | 63.2 | 63.2 | 63.2   | 63.2 | 63.2  |
| ≥ 1800            | 37.3                       | 58.3 | 62.6 | 65.4 | 66.9 | 66.9 | 67.4 | 67.4 | 67.4 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5   | 67.5 | 67.5  |
| ≥ 1500            | 38.5                       | 61.5 | 66.7 | 69.9 | 71.5 | 71.5 | 72.2 | 72.2 | 72.2 | 72.3 | 72.3 | 72.3 | 72.3 | 72.3   | 72.3 | 72.3  |
| ≥ 1200            | 39.7                       | 65.7 | 71.5 | 75.6 | 77.7 | 78.0 | 79.0 | 79.0 | 79.0 | 79.1 | 79.2 | 79.2 | 79.2 | 79.2   | 79.2 | 79.2  |
| ≥ 1000            | 40.7                       | 68.3 | 74.2 | 78.5 | 80.6 | 80.8 | 82.2 | 82.4 | 82.4 | 82.5 | 82.7 | 82.7 | 82.7 | 82.7   | 82.7 | 82.7  |
| ≥ 900             | 40.7                       | 68.9 | 74.8 | 79.1 | 81.2 | 81.5 | 82.9 | 83.1 | 83.1 | 83.3 | 83.4 | 83.4 | 83.4 | 83.4   | 83.4 | 83.4  |
| ≥ 800             | 40.8                       | 70.1 | 76.6 | 80.9 | 83.1 | 83.5 | 85.0 | 85.5 | 85.5 | 85.6 | 85.7 | 85.7 | 85.7 | 85.7   | 85.7 | 85.7  |
| ≥ 700             | 41.0                       | 70.8 | 77.7 | 82.7 | 85.0 | 85.4 | 87.0 | 87.3 | 87.3 | 87.5 | 87.6 | 87.6 | 87.6 | 87.6   | 87.6 | 87.6  |
| ≥ 600             | 41.0                       | 71.7 | 78.7 | 84.0 | 86.7 | 87.1 | 88.8 | 89.2 | 89.2 | 89.4 | 89.5 | 89.5 | 89.5 | 89.5   | 89.5 | 89.5  |
| ≥ 500             | 41.0                       | 72.1 | 79.7 | 85.2 | 88.4 | 89.3 | 91.1 | 92.5 | 92.6 | 93.0 | 93.2 | 93.2 | 93.5 | 93.5   | 93.5 | 93.5  |
| ≥ 400             | 41.0                       | 72.1 | 80.3 | 86.1 | 89.4 | 90.3 | 92.6 | 94.1 | 94.2 | 94.6 | 94.8 | 94.8 | 95.1 | 95.1   | 95.1 | 95.1  |
| ≥ 300             | 41.0                       | 72.2 | 80.6 | 86.5 | 90.3 | 91.5 | 94.0 | 95.4 | 95.7 | 96.2 | 96.4 | 96.4 | 96.7 | 96.7   | 96.7 | 96.7  |
| ≥ 200             | 41.0                       | 72.2 | 80.6 | 86.7 | 90.7 | 91.9 | 94.5 | 96.4 | 96.9 | 97.5 | 97.8 | 97.8 | 98.0 | 98.0   | 98.2 | 98.3  |
| ≥ 100             | 41.0                       | 72.2 | 80.6 | 86.7 | 90.7 | 91.9 | 94.5 | 96.4 | 96.9 | 97.5 | 97.9 | 97.9 | 98.3 | 98.6   | 99.3 | 99.4  |
| ≥ 0               | 41.1                       | 72.3 | 80.7 | 86.8 | 90.8 | 92.0 | 94.6 | 96.6 | 97.0 | 97.7 | 98.2 | 98.2 | 98.5 | 98.9   | 99.5 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 813

GLOBAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

25 YOUNGSTOWN MAP OH

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1600-0000  
HOURS LST

| CEILING<br>FEET | VISIBILITY: STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                       | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.6  | ≥.5  | ≥0    |
| NO CEILING      | 12.7                      | 16.7 | 17.3 | 17.9 | 18.0 | 18.4 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6  |
| ≥ 20000         | 14.1                      | 18.5 | 19.1 | 19.8 | 20.0 | 20.3 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6  |
| ≥ 18000         | 14.5                      | 18.9 | 19.5 | 20.2 | 20.3 | 20.7 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9  |
| ≥ 16000         | 14.5                      | 18.9 | 19.5 | 20.2 | 20.3 | 20.7 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9  |
| ≥ 14000         | 14.6                      | 19.0 | 19.6 | 20.3 | 20.4 | 20.8 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0  |
| ≥ 12000         | 15.4                      | 20.3 | 20.9 | 21.6 | 21.8 | 22.1 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4 | 22.4  |
| ≥ 10000         | 17.7                      | 23.2 | 23.9 | 24.7 | 24.8 | 25.2 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4  |
| ≥ 9000          | 18.4                      | 23.9 | 24.7 | 25.4 | 25.5 | 25.9 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1  |
| ≥ 8000          | 19.5                      | 26.2 | 27.0 | 27.9 | 28.1 | 28.4 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7  |
| ≥ 7000          | 20.1                      | 28.1 | 28.8 | 29.7 | 29.9 | 30.2 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5  |
| ≥ 6000          | 20.9                      | 29.0 | 29.7 | 30.7 | 30.8 | 31.2 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4  |
| ≥ 5000          | 22.6                      | 31.9 | 32.6 | 33.6 | 33.7 | 34.1 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3  |
| ≥ 4500          | 23.2                      | 33.3 | 34.2 | 35.2 | 35.3 | 35.7 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9 | 35.9  |
| ≥ 4000          | 25.2                      | 35.8 | 36.9 | 38.0 | 38.1 | 38.5 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7 | 38.7  |
| ≥ 3500          | 27.7                      | 38.9 | 40.7 | 42.2 | 42.3 | 42.7 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9 | 42.9  |
| ≥ 3000          | 28.8                      | 42.1 | 44.4 | 46.1 | 46.3 | 46.9 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2 | 47.2  |
| ≥ 2500          | 31.4                      | 47.4 | 50.7 | 53.1 | 53.4 | 54.1 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7  |
| ≥ 2000          | 35.6                      | 54.5 | 58.4 | 60.9 | 61.5 | 62.3 | 63.1 | 63.6 | 63.6 | 63.8 | 63.8 | 63.8 | 63.8 | 63.8 | 63.8 | 63.8  |
| ≥ 1800          | 37.1                      | 57.6 | 61.9 | 64.8 | 65.4 | 66.1 | 67.0 | 67.5 | 67.5 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8 | 67.8  |
| ≥ 1500          | 37.7                      | 60.3 | 65.2 | 68.4 | 69.3 | 70.3 | 71.1 | 71.6 | 71.6 | 71.9 | 71.9 | 71.9 | 71.9 | 71.9 | 71.9 | 71.9  |
| ≥ 1200          | 38.8                      | 63.1 | 68.9 | 73.2 | 74.4 | 75.7 | 76.8 | 77.9 | 77.9 | 78.4 | 78.5 | 78.5 | 78.5 | 78.5 | 78.5 | 78.5  |
| ≥ 1000          | 39.2                      | 64.2 | 71.0 | 74.6 | 76.2 | 77.8 | 79.1 | 80.7 | 80.7 | 81.1 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3 | 81.3  |
| ≥ 900           | 39.4                      | 65.2 | 71.7 | 76.3 | 78.0 | 79.8 | 81.3 | 83.1 | 83.1 | 83.6 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7 | 83.7  |
| ≥ 800           | 39.7                      | 66.5 | 73.0 | 77.6 | 79.3 | 81.1 | 82.7 | 84.5 | 84.5 | 85.1 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4 | 85.4  |
| ≥ 700           | 39.7                      | 67.0 | 73.8 | 78.8 | 80.7 | 82.5 | 84.3 | 86.2 | 86.2 | 86.8 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1  |
| ≥ 600           | 39.8                      | 67.7 | 74.5 | 79.9 | 81.7 | 83.6 | 85.6 | 87.5 | 87.5 | 88.1 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4 | 88.4  |
| ≥ 500           | 39.9                      | 68.3 | 75.8 | 81.6 | 83.7 | 85.5 | 87.7 | 90.0 | 90.0 | 91.1 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3 | 91.3  |
| ≥ 400           | 39.9                      | 68.8 | 76.3 | 82.7 | 85.0 | 87.1 | 89.8 | 92.4 | 92.4 | 93.7 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0 | 94.0  |
| ≥ 300           | 39.9                      | 68.9 | 76.5 | 83.2 | 85.7 | 87.8 | 90.9 | 93.6 | 93.6 | 95.4 | 95.9 | 95.9 | 96.0 | 96.0 | 96.0 | 96.0  |
| ≥ 200           | 39.9                      | 69.0 | 76.7 | 83.4 | 86.1 | 88.3 | 92.1 | 95.2 | 95.2 | 97.5 | 97.9 | 97.9 | 98.1 | 98.1 | 98.2 | 98.2  |
| ≥ 100           | 39.9                      | 69.0 | 76.7 | 83.6 | 86.2 | 88.4 | 92.3 | 95.3 | 95.3 | 97.7 | 98.3 | 98.3 | 98.5 | 98.5 | 98.9 | 98.9  |
| ≥ 0             | 39.9                      | 69.0 | 76.7 | 83.6 | 86.2 | 88.4 | 92.3 | 95.3 | 95.3 | 97.7 | 98.5 | 98.5 | 98.9 | 98.9 | 99.6 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 827

FEDERAL CLIMATOLOGY BRANCH  
AFETAC  
AF WEATHER SERVICE/HAC

## CEILING VERSUS VISIBILITY

STATION  
1251

YOUNGSTOWN MAP OH

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

900-1100  
HOURS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                        | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1.4 | ≥1   | ≥.9  | ≥.8  | ≥.7  | ≥.5  | ≥.4  | ≥.3   |
| NO CEILING      | 17.7                       | 14.1 | 14.7 | 15.0 | 15.2 | 15.4 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 15.5  |
| ≥ 20000         | 15.2                       | 21.3 | 21.0 | 21.6 | 21.7 | 22.2 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3  |
| IV 18000        | 15.2                       | 20.3 | 21.0 | 21.6 | 21.7 | 22.2 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3 | 22.3  |
| IV 16000        | 15.3                       | 20.4 | 21.1 | 21.7 | 21.8 | 22.3 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5  |
| IV 14000        | 15.9                       | 21.0 | 21.7 | 22.3 | 22.5 | 22.9 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1 | 23.1  |
| IV 12000        | 16.5                       | 22.3 | 23.1 | 23.7 | 23.8 | 24.3 | 24.4 | 24.4 | 24.4 | 24.4 | 24.4 | 24.4 | 24.4 | 24.4 | 24.4 | 24.4  |
| IV 10000        | 17.8                       | 24.0 | 24.9 | 25.5 | 25.6 | 26.1 | 26.2 | 26.2 | 26.2 | 26.2 | 26.2 | 26.2 | 26.2 | 26.2 | 26.2 | 26.2  |
| IV 9000         | 18.4                       | 24.3 | 25.6 | 26.2 | 26.3 | 26.8 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9 | 26.9  |
| IV 8000         | 20.0                       | 26.9 | 28.0 | 28.6 | 28.9 | 29.6 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7 | 29.7  |
| IV 7000         | 20.1                       | 27.7 | 29.8 | 29.5 | 29.7 | 30.5 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6 | 30.6  |
| IV 6000         | 20.5                       | 28.3 | 29.6 | 30.3 | 30.6 | 31.3 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4 | 31.4  |
| IV 5000         | 22.1                       | 30.2 | 31.7 | 32.4 | 32.6 | 33.4 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5 | 33.5  |
| IV 4500         | 22.8                       | 31.2 | 32.6 | 33.4 | 33.6 | 34.5 | 34.6 | 34.6 | 34.6 | 34.6 | 34.6 | 34.6 | 34.6 | 34.6 | 34.6 | 34.6  |
| IV 4000         | 24.4                       | 33.5 | 35.1 | 35.9 | 36.4 | 37.3 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4 | 37.4  |
| IV 3500         | 26.1                       | 35.6 | 37.4 | 38.2 | 38.8 | 39.7 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0  |
| IV 3000         | 28.2                       | 38.5 | 40.7 | 41.6 | 42.2 | 43.1 | 43.8 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9 | 43.9  |
| IV 2500         | 30.5                       | 42.2 | 44.5 | 45.8 | 46.6 | 47.6 | 48.9 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0  |
| IV 2000         | 34.0                       | 46.8 | 49.9 | 51.6 | 52.4 | 54.2 | 55.8 | 56.3 | 56.3 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6 | 56.6  |
| IV 1800         | 35.7                       | 49.0 | 52.4 | 54.4 | 55.2 | 57.0 | 58.7 | 59.3 | 59.3 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6 | 59.6  |
| IV 1500         | 37.4                       | 52.5 | 56.2 | 58.7 | 60.0 | 62.4 | 64.7 | 65.9 | 66.0 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5 | 66.5  |
| IV 1200         | 38.2                       | 55.6 | 59.7 | 62.9 | 64.4 | 67.2 | 70.8 | 72.7 | 72.8 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4 | 73.4  |
| IV 1000         | 38.3                       | 56.3 | 60.4 | 64.1 | 66.0 | 69.5 | 73.4 | 75.6 | 75.7 | 76.6 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9 | 76.9  |
| IV 900          | 38.5                       | 57.0 | 61.2 | 64.8 | 67.0 | 70.5 | 74.6 | 77.1 | 77.2 | 78.3 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6  |
| IV 800          | 38.6                       | 57.8 | 61.9 | 65.7 | 68.2 | 72.1 | 76.3 | 78.9 | 79.0 | 80.3 | 81.6 | 81.6 | 81.7 | 81.7 | 81.7 | 81.7  |
| IV 700          | 38.6                       | 58.9 | 63.3 | 67.6 | 70.3 | 74.4 | 79.0 | 82.2 | 82.3 | 84.0 | 85.4 | 85.4 | 85.6 | 85.6 | 85.6 | 85.6  |
| IV 600          | 38.6                       | 59.1 | 63.7 | 68.3 | 71.1 | 75.2 | 80.0 | 83.4 | 83.5 | 85.2 | 86.8 | 86.8 | 86.9 | 86.9 | 86.9 | 86.9  |
| IV 500          | 38.6                       | 59.5 | 64.3 | 68.9 | 71.8 | 76.5 | 81.6 | 85.6 | 85.8 | 88.2 | 89.8 | 89.8 | 90.5 | 90.5 | 90.5 | 90.5  |
| IV 400          | 38.6                       | 59.5 | 64.3 | 69.3 | 72.3 | 77.3 | 82.8 | 87.4 | 87.7 | 90.5 | 92.2 | 92.2 | 93.0 | 93.0 | 93.0 | 93.0  |
| IV 300          | 38.6                       | 59.5 | 64.3 | 69.4 | 72.8 | 77.8 | 83.5 | 88.3 | 88.7 | 92.0 | 93.8 | 93.8 | 95.4 | 95.4 | 95.6 | 95.6  |
| IV 200          | 38.6                       | 59.5 | 64.3 | 69.4 | 72.8 | 77.8 | 83.5 | 88.7 | 89.1 | 93.0 | 95.3 | 95.3 | 97.5 | 97.5 | 97.7 | 97.7  |
| IV 100          | 38.6                       | 59.5 | 64.3 | 69.4 | 72.8 | 77.8 | 83.5 | 88.7 | 89.2 | 93.1 | 95.6 | 95.6 | 98.7 | 98.7 | 99.2 | 99.2  |
| IV 0            | 38.6                       | 59.5 | 64.3 | 69.4 | 72.8 | 77.8 | 83.5 | 88.7 | 89.2 | 93.1 | 95.6 | 95.6 | 98.7 | 98.7 | 99.3 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 824



U.S. AIR FORCE CLIMATOLOGY BRANCH  
AFETAC  
STAT-ER SERVICE/MAC

# CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1200-1400  
HOURS (LT)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |      |       |        |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|-------|------|-------|--------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥0.5 | ≥0.25 | ≥0.15 | ≥0.1 | ≥0.05 | ≥0.025 | ≥0    |
| NO CEILING      | 12.7                     | 15.2 | 15.6 | 15.9 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.1 | 16.1  | 16.1  | 16.1 | 16.1  | 16.1   | 16.1  |
| ≥ 20000         | 17.7                     | 21.7 | 22.3 | 22.7 | 22.9 | 23.0 | 23.0 | 23.0 | 23.0 | 23.2 | 23.2  | 23.2  | 23.2 | 23.2  | 23.2   | 23.2  |
| N 18000         | 17.9                     | 21.9 | 22.5 | 22.9 | 23.2 | 23.3 | 23.3 | 23.3 | 23.3 | 23.4 | 23.4  | 23.4  | 23.4 | 23.4  | 23.4   | 23.4  |
| N 16000         | 17.9                     | 21.9 | 22.5 | 22.9 | 23.2 | 23.3 | 23.3 | 23.3 | 23.3 | 23.4 | 23.4  | 23.4  | 23.4 | 23.4  | 23.4   | 23.4  |
| N 14000         | 18.2                     | 22.4 | 23.0 | 23.4 | 23.6 | 23.8 | 23.8 | 23.8 | 23.8 | 23.9 | 23.9  | 23.9  | 23.9 | 23.9  | 23.9   | 23.9  |
| N 12000         | 20.0                     | 24.2 | 24.8 | 25.2 | 25.5 | 25.6 | 25.6 | 25.6 | 25.6 | 25.7 | 25.7  | 25.7  | 25.7 | 25.7  | 25.7   | 25.7  |
| N 10000         | 21.5                     | 25.7 | 26.5 | 26.9 | 27.2 | 27.3 | 27.3 | 27.3 | 27.3 | 27.4 | 27.4  | 27.4  | 27.4 | 27.4  | 27.4   | 27.4  |
| N 9000          | 21.9                     | 26.7 | 27.5 | 27.9 | 28.1 | 28.2 | 28.2 | 28.2 | 28.2 | 28.4 | 28.4  | 28.4  | 28.4 | 28.4  | 28.4   | 28.4  |
| N 8000          | 22.9                     | 28.1 | 29.0 | 29.3 | 29.6 | 29.7 | 29.7 | 29.7 | 29.7 | 29.8 | 29.8  | 29.8  | 29.8 | 29.8  | 29.8   | 29.8  |
| N 7000          | 23.2                     | 28.8 | 29.7 | 30.1 | 30.3 | 30.4 | 30.4 | 30.4 | 30.4 | 30.5 | 30.5  | 30.5  | 30.5 | 30.5  | 30.5   | 30.5  |
| N 6000          | 23.3                     | 29.1 | 30.1 | 30.4 | 30.7 | 30.8 | 30.8 | 30.8 | 30.8 | 30.9 | 30.9  | 30.9  | 30.9 | 30.9  | 30.9   | 30.9  |
| N 5000          | 24.4                     | 31.5 | 32.7 | 33.1 | 33.5 | 33.6 | 33.6 | 33.6 | 33.6 | 33.7 | 33.7  | 33.7  | 33.7 | 33.7  | 33.7   | 33.7  |
| N 4500          | 25.1                     | 32.4 | 33.6 | 33.9 | 34.3 | 34.4 | 34.4 | 34.4 | 34.4 | 34.5 | 34.5  | 34.5  | 34.5 | 34.5  | 34.5   | 34.5  |
| N 4000          | 25.8                     | 33.2 | 34.4 | 34.8 | 35.2 | 35.3 | 35.3 | 35.3 | 35.3 | 35.4 | 35.4  | 35.4  | 35.4 | 35.4  | 35.4   | 35.4  |
| N 3500          | 27.4                     | 34.0 | 36.1 | 36.5 | 37.0 | 37.1 | 37.1 | 37.1 | 37.1 | 37.2 | 37.2  | 37.2  | 37.2 | 37.2  | 37.2   | 37.2  |
| N 3000          | 30.2                     | 38.1 | 39.3 | 39.6 | 40.1 | 40.5 | 40.5 | 40.5 | 40.5 | 40.6 | 40.6  | 40.6  | 40.6 | 40.6  | 40.6   | 40.6  |
| N 2500          | 35.4                     | 45.0 | 45.5 | 47.0 | 47.8 | 48.4 | 48.6 | 48.7 | 48.7 | 49.0 | 49.0  | 49.0  | 49.0 | 49.0  | 49.0   | 49.0  |
| N 2000          | 41.2                     | 54.2 | 56.5 | 57.5 | 58.4 | 59.3 | 59.9 | 60.0 | 60.0 | 60.4 | 60.4  | 60.4  | 60.4 | 60.4  | 60.4   | 60.4  |
| N 1800          | 42.7                     | 56.4 | 59.2 | 60.4 | 61.3 | 62.3 | 62.9 | 63.0 | 63.0 | 63.4 | 63.4  | 63.4  | 63.4 | 63.4  | 63.4   | 63.4  |
| N 1500          | 43.5                     | 60.4 | 64.0 | 65.7 | 67.2 | 68.6 | 69.7 | 70.5 | 70.5 | 70.9 | 70.9  | 70.9  | 70.9 | 70.9  | 70.9   | 70.9  |
| N 1200          | 44.2                     | 63.2 | 67.2 | 69.5 | 71.3 | 73.0 | 74.8 | 76.1 | 76.1 | 76.8 | 77.1  | 77.1  | 77.1 | 77.1  | 77.1   | 77.1  |
| N 1000          | 44.5                     | 63.9 | 68.0 | 70.4 | 72.5 | 74.3 | 76.1 | 77.9 | 77.9 | 79.2 | 79.4  | 79.4  | 79.4 | 79.4  | 79.4   | 79.4  |
| N 900           | 44.7                     | 64.5 | 69.0 | 71.5 | 74.1 | 76.1 | 78.1 | 79.9 | 79.9 | 81.1 | 81.3  | 81.3  | 81.3 | 81.3  | 81.3   | 81.3  |
| N 800           | 44.7                     | 65.2 | 70.1 | 72.7 | 75.4 | 77.5 | 79.4 | 81.8 | 81.8 | 83.0 | 83.8  | 83.8  | 83.8 | 83.8  | 83.8   | 83.8  |
| N 700           | 45.1                     | 65.8 | 70.8 | 73.6 | 76.5 | 79.7 | 80.8 | 83.8 | 83.9 | 85.2 | 86.2  | 86.2  | 86.2 | 86.3  | 86.3   | 86.3  |
| N 600           | 45.1                     | 66.2 | 71.3 | 74.2 | 77.1 | 79.5 | 82.2 | 85.3 | 85.6 | 87.3 | 88.4  | 88.4  | 88.6 | 88.6  | 88.6   | 88.6  |
| N 500           | 45.7                     | 66.7 | 72.0 | 74.9 | 77.9 | 81.1 | 84.2 | 87.9 | 88.1 | 90.3 | 91.6  | 91.6  | 92.0 | 92.0  | 92.0   | 92.1  |
| N 400           | 45.0                     | 66.7 | 72.0 | 75.2 | 78.5 | 82.1 | 85.8 | 89.9 | 90.2 | 92.7 | 94.3  | 94.3  | 95.0 | 95.0  | 95.0   | 95.3  |
| N 300           | 45.0                     | 66.7 | 72.0 | 75.2 | 78.5 | 82.3 | 86.1 | 90.7 | 90.9 | 93.9 | 95.6  | 95.6  | 96.4 | 96.4  | 96.4   | 96.6  |
| N 200           | 45.0                     | 66.7 | 72.0 | 75.2 | 78.7 | 82.4 | 86.4 | 91.2 | 91.4 | 94.9 | 97.0  | 97.0  | 98.2 | 98.2  | 98.2   | 98.4  |
| N 100           | 45.0                     | 66.7 | 72.0 | 75.2 | 78.7 | 82.4 | 86.4 | 91.2 | 91.4 | 94.9 | 97.0  | 97.0  | 98.4 | 98.4  | 98.8   | 99.4  |
| N 0             | 45.0                     | 66.7 | 72.0 | 75.2 | 78.7 | 82.4 | 86.4 | 91.2 | 91.4 | 94.9 | 97.0  | 97.0  | 98.4 | 98.4  | 98.8   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 825

CLIMATE CLIMATOLOGY BRANCH

ETAC

AIR-EL SERVICE/MAC

# CEILING VERSUS VISIBILITY

7-25  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

YEARS

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

1500-1700  
HOURS (LST)

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |      |       |        |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|-------|------|-------|--------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥0.5 | ≥0.25 | ≥0.15 | ≥0.1 | ≥0.05 | ≥0.025 | ≥0    |
| NO CEILING      | 11.7                     | 13.4 | 13.7 | 13.8 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0  | 14.0  | 14.0 | 14.0  | 14.0   | 14.0  |
| ≥ 20000         | 15.7                     | 19.9 | 21.3 | 20.5 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8  | 20.8  | 20.8 | 20.8  | 20.8   | 20.8  |
| IV 18000        | 16.5                     | 20.6 | 21.5 | 21.2 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5  | 21.5  | 21.5 | 21.5  | 21.5   | 21.5  |
| IV 16000        | 16.5                     | 21.6 | 21.5 | 21.2 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5  | 21.5  | 21.5 | 21.5  | 21.5   | 21.5  |
| IV 14000        | 16.5                     | 20.8 | 21.1 | 21.4 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6  | 21.6  | 21.6 | 21.6  | 21.6   | 21.6  |
| IV 12000        | 17.2                     | 21.7 | 22.2 | 22.5 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7  | 22.7  | 22.7 | 22.7  | 22.7   | 22.7  |
| IV 10000        | 19.7                     | 24.1 | 24.7 | 24.9 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2 | 25.2  | 25.2  | 25.2 | 25.2  | 25.2   | 25.2  |
| IV 9000         | 19.8                     | 24.9 | 25.6 | 25.9 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1 | 26.1  | 26.1  | 26.1 | 26.1  | 26.1   | 26.1  |
| IV 8000         | 21.7                     | 27.5 | 28.2 | 28.4 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7  | 28.7  | 28.7 | 28.7  | 28.7   | 28.7  |
| IV 7000         | 22.6                     | 28.6 | 29.3 | 29.5 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8  | 29.8  | 29.8 | 29.8  | 29.8   | 29.8  |
| IV 6000         | 22.8                     | 29.1 | 29.8 | 30.0 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3  | 30.3  | 30.3 | 30.3  | 30.3   | 30.3  |
| IV 5000         | 24.1                     | 31.3 | 32.1 | 32.4 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7  | 32.7  | 32.7 | 32.7  | 32.7   | 32.7  |
| IV 4500         | 24.5                     | 32.5 | 33.5 | 33.7 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1 | 34.1  | 34.1  | 34.1 | 34.1  | 34.1   | 34.1  |
| IV 4000         | 25.7                     | 34.8 | 35.9 | 36.3 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6 | 36.6  | 36.6  | 36.6 | 36.6  | 36.6   | 36.6  |
| IV 3500         | 27.2                     | 36.4 | 37.6 | 38.1 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5 | 38.5  | 38.5  | 38.5 | 38.5  | 38.5   | 38.5  |
| IV 3000         | 30.3                     | 41.3 | 42.5 | 43.3 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7  | 43.7  | 43.7 | 43.7  | 43.7   | 43.7  |
| IV 2500         | 35.5                     | 49.0 | 49.5 | 50.3 | 50.7 | 50.8 | 50.8 | 50.9 | 50.9 | 51.0 | 51.0  | 51.0  | 51.0 | 51.0  | 51.0   | 51.0  |
| IV 2000         | 42.6                     | 57.5 | 59.7 | 61.2 | 61.5 | 61.7 | 62.1 | 62.3 | 62.3 | 62.4 | 62.4  | 62.4  | 62.4 | 62.4  | 62.4   | 62.4  |
| IV 1800         | 44.1                     | 60.3 | 62.8 | 64.5 | 64.8 | 65.2 | 66.2 | 66.3 | 66.3 | 66.4 | 66.4  | 66.4  | 66.4 | 66.4  | 66.4   | 66.4  |
| IV 1500         | 45.4                     | 63.4 | 66.7 | 68.4 | 69.1 | 69.7 | 71.7 | 72.0 | 72.0 | 72.3 | 72.3  | 72.3  | 72.3 | 72.3  | 72.3   | 72.3  |
| IV 1200         | 46.2                     | 65.1 | 68.5 | 71.4 | 72.3 | 73.4 | 76.2 | 77.0 | 77.0 | 77.8 | 77.8  | 77.8  | 77.8 | 77.8  | 77.8   | 77.8  |
| IV 1000         | 46.6                     | 66.9 | 70.7 | 73.6 | 74.5 | 75.7 | 79.2 | 80.5 | 80.5 | 81.6 | 81.8  | 81.8  | 81.8 | 81.8  | 81.8   | 81.8  |
| IV 900          | 46.6                     | 67.5 | 71.2 | 74.5 | 75.3 | 76.6 | 80.7 | 81.8 | 81.8 | 83.0 | 83.3  | 83.3  | 83.3 | 83.3  | 83.3   | 83.3  |
| IV 800          | 46.8                     | 67.6 | 72.7 | 75.6 | 76.6 | 78.0 | 81.8 | 83.4 | 83.5 | 85.3 | 85.8  | 85.8  | 85.8 | 85.8  | 85.8   | 85.8  |
| IV 700          | 46.7                     | 68.0 | 72.9 | 76.3 | 77.4 | 79.7 | 83.4 | 85.3 | 85.5 | 87.7 | 88.4  | 88.4  | 88.4 | 88.4  | 88.4   | 88.4  |
| IV 600          | 46.7                     | 68.4 | 73.3 | 76.9 | 78.0 | 80.0 | 85.1 | 87.2 | 87.3 | 89.5 | 90.4  | 90.4  | 90.5 | 90.5  | 90.5   | 90.5  |
| IV 500          | 46.9                     | 69.7 | 74.2 | 78.1 | 79.2 | 81.6 | 86.9 | 89.3 | 89.4 | 92.1 | 92.9  | 92.9  | 93.0 | 93.0  | 93.0   | 93.2  |
| IV 400          | 47.0                     | 69.1 | 74.4 | 78.3 | 79.4 | 82.2 | 87.8 | 90.5 | 90.6 | 93.4 | 94.9  | 94.9  | 95.0 | 95.0  | 95.0   | 95.1  |
| IV 300          | 47.0                     | 69.1 | 74.4 | 78.3 | 79.4 | 82.3 | 88.2 | 91.1 | 91.2 | 94.6 | 96.1  | 96.1  | 96.2 | 96.2  | 96.2   | 96.3  |
| IV 200          | 47.0                     | 69.1 | 74.4 | 78.3 | 79.4 | 82.3 | 88.2 | 91.3 | 91.5 | 95.6 | 97.4  | 97.6  | 97.8 | 97.8  | 98.0   | 98.2  |
| IV 100          | 47.7                     | 69.1 | 74.4 | 78.3 | 79.4 | 82.3 | 88.2 | 91.3 | 91.5 | 95.6 | 97.6  | 97.7  | 98.2 | 98.2  | 98.4   | 99.0  |
| IV 0            | 47.7                     | 69.1 | 74.4 | 79.3 | 79.4 | 82.3 | 88.2 | 91.3 | 91.5 | 95.6 | 97.6  | 97.7  | 98.2 | 98.2  | 98.7   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 819

7  
FEDERAL CLIMATOLOGY BRANCH  
AFETAC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH  
STATION NAME

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

19.2-20.0  
MOON 1.5

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |      |       |        |       |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|------|-------|--------|-------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥0.5 | ≥0.25 | ≥0.1 | ≥0.05 | ≥0.025 | ≥0.01 | ≥0    |
| NO CEILING      | 12.9                     | 16.1 | 16.3 | 16.6 | 16.6 | 16.8 | 16.9 | 16.9 | 16.9 | 16.9 | 16.9  | 16.9 | 16.9  | 16.9   | 16.9  | 16.9  |
| ≥20000          | 14.9                     | 19.9 | 2.1  | 20.3 | 20.3 | 20.6 | 20.7 | 20.7 | 20.7 | 20.7 | 20.7  | 20.7 | 20.7  | 20.7   | 20.7  | 20.7  |
| ≥18000          | 15.1                     | 21.1 | 20.3 | 20.6 | 20.6 | 20.8 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9  | 20.9 | 20.9  | 20.9   | 20.9  | 20.9  |
| ≥16000          | 15.1                     | 21.1 | 20.3 | 20.6 | 20.6 | 20.8 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9  | 20.9 | 20.9  | 20.9   | 20.9  | 20.9  |
| ≥14000          | 15.1                     | 21.1 | 20.3 | 20.6 | 20.6 | 20.8 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9  | 20.9 | 20.9  | 20.9   | 20.9  | 20.9  |
| ≥12000          | 15.7                     | 20.7 | 20.9 | 21.2 | 21.2 | 21.4 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5  | 21.5 | 21.5  | 21.5   | 21.5  | 21.5  |
| ≥10000          | 17.7                     | 24.0 | 24.2 | 24.5 | 24.5 | 24.7 | 24.8 | 24.8 | 24.8 | 24.8 | 24.8  | 24.8 | 24.8  | 24.8   | 24.8  | 24.8  |
| ≥9000           | 18.3                     | 24.6 | 25.1 | 25.3 | 25.3 | 25.5 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7  | 25.7 | 25.7  | 25.7   | 25.7  | 25.7  |
| ≥8000           | 20.0                     | 27.1 | 27.4 | 27.6 | 27.6 | 27.8 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0  | 28.0 | 28.0  | 28.0   | 28.0  | 28.0  |
| ≥7000           | 21.5                     | 28.9 | 29.2 | 29.4 | 29.4 | 29.7 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8  | 29.8 | 29.8  | 29.8   | 29.8  | 29.8  |
| ≥6000           | 22.2                     | 29.5 | 29.8 | 30.0 | 30.0 | 30.3 | 30.4 | 30.4 | 30.4 | 30.4 | 30.4  | 30.4 | 30.4  | 30.4   | 30.4  | 30.4  |
| ≥5000           | 24.2                     | 3.6  | 33.1 | 33.3 | 33.3 | 33.5 | 33.7 | 33.7 | 33.7 | 33.7 | 33.7  | 33.7 | 33.7  | 33.7   | 33.7  | 33.7  |
| ≥4500           | 24.6                     | 34.6 | 34.6 | 34.9 | 34.9 | 35.1 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2  | 35.2 | 35.2  | 35.2   | 35.2  | 35.2  |
| ≥4000           | 25.3                     | 35.6 | 36.4 | 36.7 | 36.7 | 36.9 | 37.2 | 37.2 | 37.2 | 37.2 | 37.2  | 37.2 | 37.2  | 37.2   | 37.2  | 37.2  |
| ≥3500           | 28.7                     | 38.9 | 39.8 | 40.1 | 40.1 | 40.3 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6  | 40.6 | 40.6  | 40.6   | 40.6  | 40.6  |
| ≥3000           | 31.2                     | 44.2 | 45.4 | 46.1 | 46.1 | 46.4 | 46.6 | 46.6 | 46.6 | 46.6 | 46.6  | 46.6 | 46.6  | 46.6   | 46.6  | 46.6  |
| ≥2500           | 34.5                     | 48.9 | 50.6 | 51.5 | 51.7 | 51.9 | 52.2 | 52.2 | 52.2 | 52.2 | 52.2  | 52.2 | 52.2  | 52.2   | 52.2  | 52.2  |
| ≥2000           | 40.1                     | 59.1 | 61.5 | 62.8 | 63.3 | 63.6 | 63.8 | 63.8 | 63.8 | 63.8 | 63.8  | 63.8 | 63.8  | 63.8   | 63.8  | 63.8  |
| ≥1800           | 41.7                     | 62.2 | 65.0 | 66.7 | 67.3 | 67.6 | 67.9 | 67.9 | 67.9 | 68.0 | 68.0  | 68.0 | 68.0  | 68.0   | 68.0  | 68.0  |
| ≥1500           | 43.1                     | 65.1 | 68.6 | 70.9 | 71.8 | 72.0 | 72.4 | 72.6 | 72.6 | 72.9 | 72.9  | 72.9 | 72.9  | 72.9   | 72.9  | 72.9  |
| ≥1200           | 44.1                     | 67.4 | 70.9 | 73.8 | 74.9 | 75.4 | 76.0 | 76.6 | 76.6 | 77.1 | 77.1  | 77.1 | 77.1  | 77.1   | 77.1  | 77.1  |
| ≥1000           | 44.3                     | 69.4 | 73.2 | 76.4 | 77.5 | 78.1 | 79.3 | 80.1 | 80.1 | 81.0 | 81.0  | 81.0 | 81.0  | 81.0   | 81.0  | 81.0  |
| ≥900            | 44.3                     | 69.4 | 74.1 | 77.4 | 78.5 | 79.1 | 80.3 | 81.1 | 81.1 | 82.1 | 82.1  | 82.1 | 82.1  | 82.1   | 82.1  | 82.1  |
| ≥800            | 44.4                     | 69.9 | 74.8 | 78.7 | 80.0 | 80.8 | 82.1 | 83.1 | 83.1 | 84.1 | 84.1  | 84.1 | 84.1  | 84.1   | 84.1  | 84.1  |
| ≥700            | 44.6                     | 70.7 | 75.9 | 79.8 | 81.1 | 82.0 | 83.9 | 85.1 | 85.1 | 86.2 | 86.2  | 86.2 | 86.2  | 86.2   | 86.2  | 86.2  |
| ≥600            | 44.3                     | 71.2 | 76.5 | 80.6 | 82.1 | 83.1 | 85.0 | 86.7 | 86.7 | 88.0 | 88.0  | 88.0 | 88.0  | 88.0   | 88.0  | 88.0  |
| ≥500            | 44.8                     | 71.7 | 77.1 | 81.5 | 83.3 | 84.9 | 87.4 | 89.5 | 89.5 | 91.2 | 91.2  | 91.2 | 91.2  | 91.2   | 91.2  | 91.2  |
| ≥400            | 44.5                     | 72.7 | 77.6 | 83.3 | 85.4 | 87.2 | 90.0 | 92.5 | 92.5 | 94.6 | 95.0  | 95.0 | 95.0  | 95.2   | 95.2  | 95.2  |
| ≥300            | 44.4                     | 72.0 | 77.6 | 83.4 | 85.6 | 87.5 | 90.6 | 93.2 | 93.2 | 96.0 | 96.4  | 96.4 | 96.5  | 96.5   | 96.6  | 96.6  |
| ≥200            | 44.5                     | 72.0 | 77.6 | 83.7 | 85.8 | 87.9 | 91.3 | 94.2 | 94.2 | 97.3 | 98.1  | 98.1 | 98.4  | 98.4   | 98.7  | 98.3  |
| ≥100            | 44.8                     | 72.0 | 77.6 | 83.7 | 85.8 | 87.9 | 91.3 | 94.2 | 94.2 | 97.3 | 98.4  | 98.4 | 98.9  | 98.9   | 99.2  | 99.5  |
| ≥0              | 44.8                     | 72.0 | 77.6 | 83.7 | 85.8 | 87.9 | 91.3 | 94.2 | 94.2 | 97.3 | 98.4  | 98.4 | 99.0  | 99.0   | 99.3  | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 826

GENERAL CLIMATOLOGY BRANCH  
AFMTC  
WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

YEARS

DEC

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2100-2300  
HOURS

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1   | ≥1    |
| NO CEILING      | 14.1                     | 17.5 | 19.3 | 13.5 | 18.5 | 13.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6 | 18.6  |
| ≥ 20000         | 15.6                     | 21.7 | 21.9 | 22.0 | 22.0 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1  |
| ≥ 18000         | 15.6                     | 21.7 | 21.9 | 22.0 | 22.0 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1  |
| ≥ 16000         | 15.6                     | 21.7 | 21.9 | 22.0 | 22.0 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1  |
| ≥ 14000         | 15.6                     | 21.7 | 21.9 | 22.0 | 22.0 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1 | 22.1  |
| ≥ 12000         | 16.1                     | 21.6 | 22.5 | 22.6 | 22.6 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7  |
| ≥ 10000         | 18.3                     | 24.7 | 25.6 | 25.7 | 25.7 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8  |
| ≥ 9000          | 18.9                     | 25.3 | 26.2 | 26.3 | 26.3 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4 | 26.4  |
| ≥ 8000          | 21.4                     | 28.7 | 29.6 | 29.7 | 29.7 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8  |
| ≥ 7000          | 23.1                     | 33.2 | 31.1 | 31.2 | 31.2 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3 | 31.3  |
| ≥ 6000          | 24.0                     | 31.1 | 31.9 | 32.2 | 32.2 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3 | 32.3  |
| ≥ 5000          | 25.9                     | 33.9 | 34.8 | 35.1 | 35.1 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2  |
| ≥ 4500          | 26.2                     | 34.1 | 35.1 | 35.5 | 35.5 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6 | 35.6  |
| ≥ 4000          | 27.3                     | 35.9 | 37.2 | 37.5 | 37.5 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7  |
| ≥ 3500          | 28.1                     | 38.7 | 39.4 | 39.7 | 39.7 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9  |
| ≥ 3000          | 37.6                     | 41.6 | 43.4 | 44.7 | 44.7 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1 | 44.1  |
| ≥ 2500          | 35.5                     | 48.5 | 51.7 | 51.6 | 51.6 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7 | 51.7  |
| ≥ 2000          | 35.5                     | 56.3 | 58.4 | 59.9 | 61.1 | 61.3 | 60.4 | 60.5 | 60.5 | 60.6 | 60.6 | 60.6 | 60.6 | 60.6 | 60.6 | 60.6  |
| ≥ 1800          | 41.1                     | 59.0 | 62.7 | 63.6 | 63.8 | 63.9 | 64.2 | 64.3 | 64.3 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4  |
| ≥ 1500          | 42.5                     | 52.5 | 65.8 | 67.8 | 68.1 | 68.3 | 68.9 | 69.1 | 69.1 | 69.2 | 69.2 | 69.2 | 69.2 | 69.2 | 69.2 | 69.2  |
| ≥ 1200          | 43.4                     | 66.3 | 70.2 | 73.3 | 73.6 | 74.1 | 75.1 | 75.6 | 75.6 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7 | 75.7  |
| ≥ 1000          | 43.6                     | 67.6 | 71.9 | 75.3 | 75.8 | 76.3 | 77.8 | 78.2 | 78.2 | 78.5 | 78.5 | 78.5 | 78.5 | 78.5 | 78.5 | 78.5  |
| ≥ 900           | 43.8                     | 53.2 | 72.6 | 76.0 | 76.7 | 77.1 | 78.6 | 79.3 | 79.3 | 79.6 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7 | 79.7  |
| ≥ 800           | 43.4                     | 68.8 | 73.3 | 76.9 | 77.5 | 78.4 | 79.8 | 80.8 | 80.8 | 81.1 | 81.2 | 81.2 | 81.3 | 81.3 | 81.3 | 81.7  |
| ≥ 700           | 44.5                     | 71.3 | 75.1 | 79.0 | 79.6 | 81.6 | 82.0 | 82.4 | 83.4 | 83.6 | 83.7 | 83.7 | 83.9 | 83.9 | 83.9 | 83.9  |
| ≥ 600           | 44.5                     | 70.9 | 75.0 | 80.2 | 80.8 | 81.9 | 83.7 | 85.3 | 85.3 | 85.6 | 85.7 | 85.7 | 85.8 | 85.8 | 85.8 | 85.8  |
| ≥ 500           | 44.5                     | 71.5 | 76.8 | 82.0 | 83.3 | 84.7 | 86.9 | 88.5 | 88.5 | 89.1 | 89.4 | 89.4 | 89.6 | 89.6 | 89.6 | 89.6  |
| ≥ 400           | 44.7                     | 71.9 | 77.4 | 83.4 | 85.2 | 87.3 | 89.9 | 92.2 | 92.2 | 93.0 | 93.4 | 93.4 | 93.6 | 93.6 | 93.6 | 93.6  |
| ≥ 300           | 44.7                     | 72.7 | 77.6 | 83.7 | 85.7 | 88.1 | 91.1 | 93.6 | 93.6 | 95.1 | 95.5 | 95.5 | 95.7 | 96.0 | 96.0 | 96.0  |
| ≥ 200           | 44.7                     | 72.0 | 77.6 | 84.0 | 85.9 | 88.4 | 91.7 | 94.4 | 94.4 | 96.3 | 96.9 | 96.9 | 97.2 | 97.4 | 97.6 | 97.6  |
| ≥ 100           | 44.7                     | 72.0 | 77.6 | 84.0 | 85.9 | 88.4 | 91.7 | 94.4 | 94.4 | 96.7 | 97.4 | 97.4 | 98.3 | 98.7 | 98.8 | 98.9  |
| ≥ 0             | 44.7                     | 72.0 | 77.6 | 84.0 | 85.9 | 88.4 | 91.7 | 94.4 | 94.4 | 96.9 | 97.8 | 97.8 | 98.7 | 99.1 | 99.3 | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 818

FEDERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/HAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

DEC

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL  
HOURS 1-24

| CEILING<br>FEET | VISIBILITY STATUTE MILES |      |      |      |      |      |      |      |      |      |       |       |      |       |        |       |
|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|-------|-------|------|-------|--------|-------|
|                 | ≥10                      | ≥6   | ≥5   | ≥4   | ≥3   | ≥2.5 | ≥2   | ≥1.5 | ≥1   | ≥0.5 | ≥0.25 | ≥0.15 | ≥0.1 | ≥0.05 | ≥0.025 | ≥0    |
| NO CEILING      | 12.4                     | 16.0 | 15.5 | 16.6 | 17.0 | 17.1 | 17.2 | 17.2 | 17.2 | 17.2 | 17.2  | 17.2  | 17.2 | 17.2  | 17.2   | 17.2  |
| ≥ 20000         | 15.4                     | 20.2 | 20.2 | 21.2 | 21.4 | 21.5 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6  | 21.6  | 21.6 | 21.6  | 21.6   | 21.6  |
| ≥ 18000         | 15.6                     | 20.4 | 21.0 | 21.4 | 21.6 | 21.7 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8  | 21.8  | 21.8 | 21.8  | 21.8   | 21.8  |
| ≥ 16000         | 15.6                     | 20.4 | 21.0 | 21.4 | 21.6 | 21.7 | 21.8 | 21.8 | 21.8 | 21.8 | 21.8  | 21.8  | 21.8 | 21.8  | 21.8   | 21.8  |
| ≥ 14000         | 15.9                     | 20.9 | 21.4 | 21.8 | 22.0 | 22.1 | 22.2 | 22.2 | 22.2 | 22.2 | 22.2  | 22.2  | 22.2 | 22.2  | 22.2   | 22.2  |
| ≥ 12000         | 16.7                     | 21.9 | 22.4 | 22.8 | 23.0 | 23.2 | 23.2 | 23.2 | 23.2 | 23.2 | 23.3  | 23.3  | 23.3 | 23.3  | 23.3   | 23.3  |
| ≥ 10000         | 18.7                     | 24.5 | 25.2 | 25.6 | 25.8 | 25.9 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0  | 26.0  | 26.0 | 26.0  | 26.0   | 26.0  |
| ≥ 9000          | 19.2                     | 25.1 | 25.4 | 26.2 | 26.4 | 26.6 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7  | 26.7  | 26.7 | 26.7  | 26.7   | 26.7  |
| ≥ 8000          | 21.1                     | 27.7 | 28.4 | 28.9 | 29.1 | 29.3 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4  | 29.4  | 29.4 | 29.4  | 29.4   | 29.4  |
| ≥ 7000          | 22.1                     | 29.1 | 29.8 | 30.3 | 30.5 | 30.7 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8  | 30.8  | 30.8 | 30.8  | 30.8   | 30.8  |
| ≥ 6000          | 22.6                     | 29.7 | 30.5 | 31.0 | 31.2 | 31.4 | 31.5 | 31.5 | 31.5 | 31.5 | 31.5  | 31.5  | 31.5 | 31.5  | 31.5   | 31.5  |
| ≥ 5000          | 24.2                     | 32.3 | 33.2 | 33.7 | 34.0 | 34.2 | 34.3 | 34.3 | 34.3 | 34.3 | 34.3  | 34.3  | 34.3 | 34.3  | 34.3   | 34.3  |
| ≥ 4500          | 24.8                     | 33.3 | 34.3 | 34.8 | 35.1 | 35.3 | 35.4 | 35.4 | 35.4 | 35.4 | 35.4  | 35.4  | 35.4 | 35.4  | 35.4   | 35.4  |
| ≥ 4000          | 26.1                     | 35.2 | 36.3 | 37.0 | 37.3 | 37.5 | 37.6 | 37.6 | 37.6 | 37.6 | 37.6  | 37.6  | 37.6 | 37.6  | 37.6   | 37.6  |
| ≥ 3500          | 27.5                     | 37.5 | 38.9 | 39.6 | 40.0 | 40.2 | 40.4 | 40.4 | 40.4 | 40.4 | 40.4  | 40.4  | 40.4 | 40.4  | 40.4   | 40.4  |
| ≥ 3000          | 27.1                     | 41.4 | 43.1 | 44.1 | 44.4 | 44.7 | 44.9 | 45.0 | 45.0 | 45.0 | 45.0  | 45.0  | 45.0 | 45.0  | 45.0   | 45.0  |
| ≥ 2500          | 33.9                     | 47.0 | 49.3 | 50.5 | 51.0 | 51.4 | 51.7 | 51.8 | 51.8 | 51.8 | 51.8  | 51.8  | 51.8 | 51.8  | 51.8   | 51.8  |
| ≥ 2000          | 38.6                     | 54.9 | 57.8 | 59.5 | 60.1 | 60.7 | 61.2 | 61.4 | 61.4 | 61.5 | 61.5  | 61.5  | 61.5 | 61.5  | 61.5   | 61.5  |
| ≥ 1800          | 39.9                     | 57.6 | 61.0 | 63.0 | 63.7 | 64.2 | 64.9 | 65.1 | 65.1 | 65.3 | 65.3  | 65.3  | 65.3 | 65.3  | 65.3   | 65.3  |
| ≥ 1500          | 41.2                     | 60.8 | 64.7 | 67.2 | 68.2 | 69.0 | 70.0 | 70.5 | 70.5 | 70.7 | 70.7  | 70.7  | 70.7 | 70.7  | 70.7   | 70.7  |
| ≥ 1200          | 42.1                     | 63.9 | 68.4 | 71.7 | 72.9 | 74.0 | 75.6 | 76.5 | 76.5 | 76.9 | 77.0  | 77.0  | 77.0 | 77.0  | 77.0   | 77.0  |
| ≥ 1000          | 42.6                     | 65.5 | 70.2 | 73.8 | 75.1 | 76.3 | 78.4 | 79.5 | 79.5 | 80.1 | 80.3  | 80.3  | 80.3 | 80.3  | 80.3   | 80.3  |
| ≥ 900           | 42.7                     | 66.1 | 71.1 | 74.7 | 76.2 | 77.5 | 79.6 | 80.9 | 80.9 | 81.6 | 81.7  | 81.7  | 81.7 | 81.7  | 81.7   | 81.7  |
| ≥ 800           | 42.3                     | 66.8 | 72.1 | 75.9 | 77.5 | 79.0 | 81.2 | 82.6 | 82.6 | 83.4 | 83.8  | 83.8  | 83.8 | 83.8  | 83.8   | 83.8  |
| ≥ 700           | 43.0                     | 67.7 | 73.3 | 77.4 | 79.1 | 80.6 | 83.1 | 84.8 | 84.9 | 85.8 | 86.3  | 86.3  | 86.3 | 86.3  | 86.3   | 86.3  |
| ≥ 600           | 43.1                     | 68.4 | 74.0 | 78.4 | 80.3 | 81.9 | 84.7 | 86.6 | 86.7 | 87.7 | 88.2  | 88.2  | 88.3 | 88.3  | 88.3   | 88.3  |
| ≥ 500           | 43.1                     | 68.8 | 74.8 | 79.6 | 81.7 | 83.8 | 86.9 | 89.3 | 89.4 | 90.8 | 91.4  | 91.4  | 91.6 | 91.6  | 91.6   | 91.7  |
| ≥ 400           | 43.1                     | 69.0 | 75.1 | 80.4 | 82.8 | 85.2 | 88.6 | 91.4 | 91.6 | 93.2 | 94.0  | 94.0  | 94.3 | 94.3  | 94.3   | 94.3  |
| ≥ 300           | 43.1                     | 69.1 | 75.3 | 80.7 | 83.3 | 85.9 | 89.6 | 92.6 | 92.8 | 94.8 | 95.7  | 95.7  | 96.1 | 96.2  | 96.2   | 96.3  |
| ≥ 200           | 43.1                     | 69.1 | 75.3 | 80.8 | 83.5 | 86.1 | 90.1 | 93.4 | 93.6 | 96.1 | 97.2  | 97.2  | 97.8 | 97.9  | 98.0   | 98.1  |
| ≥ 100           | 43.1                     | 69.1 | 75.3 | 80.8 | 83.6 | 86.2 | 90.1 | 93.5 | 93.7 | 96.2 | 97.5  | 97.5  | 98.5 | 98.6  | 99.0   | 99.3  |
| ≥ 0             | 43.2                     | 69.1 | 75.3 | 80.8 | 83.6 | 86.2 | 90.1 | 93.5 | 93.7 | 96.3 | 97.6  | 97.7  | 98.6 | 98.8  | 99.2   | 100.0 |

TOTAL NUMBER OF OBSERVATIONS 6578

GENERAL CLIMATOLOGY BRANCH  
AFETAC  
AIR WEATHER SERVICE/MAC

## CEILING VERSUS VISIBILITY

STATION YOUNGSTOWN MAP OH

73-81

ALL

### PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
MONTHS

| CEILING<br>FEET | VISIBILITY - STATUTE MILES |      |      |      |      |       |      |       |       |       |        |        |       |        |         |        |
|-----------------|----------------------------|------|------|------|------|-------|------|-------|-------|-------|--------|--------|-------|--------|---------|--------|
|                 | ≥ 10                       | ≥ 6  | ≥ 5  | ≥ 4  | ≥ 3  | ≥ 2.5 | ≥ 2  | ≥ 1.5 | ≥ 1.0 | ≥ 0.5 | ≥ 0.25 | ≥ 0.15 | ≥ 0.1 | ≥ 0.05 | ≥ 0.025 | ≥ 0.01 |
| NO CEILING      | 23.2                       | 30.1 | 31.7 | 33.2 | 34.0 | 34.6  | 35.3 | 35.5  | 35.5  | 35.7  | 35.7   | 35.7   | 35.7  | 35.8   | 35.8    | 36.0   |
| ≥ 20000         | 26.4                       | 35.0 | 37.0 | 38.7 | 39.7 | 40.5  | 41.2 | 41.5  | 41.5  | 41.7  | 41.8   | 41.8   | 41.8  | 41.9   | 41.9    | 42.0   |
| ≥ 18000         | 26.6                       | 35.1 | 37.1 | 38.8 | 39.8 | 40.6  | 41.3 | 41.6  | 41.6  | 41.8  | 41.9   | 41.9   | 41.9  | 42.0   | 42.0    | 42.1   |
| ≥ 16000         | 26.7                       | 35.1 | 37.1 | 38.8 | 39.8 | 40.6  | 41.3 | 41.6  | 41.6  | 41.9  | 41.9   | 41.9   | 41.9  | 42.0   | 42.0    | 42.1   |
| ≥ 14000         | 26.9                       | 35.5 | 37.5 | 39.2 | 40.2 | 41.0  | 41.8 | 42.1  | 42.1  | 42.3  | 42.4   | 42.4   | 42.4  | 42.5   | 42.5    | 42.6   |
| ≥ 12000         | 27.8                       | 36.8 | 38.6 | 40.6 | 41.7 | 42.5  | 43.3 | 43.6  | 43.6  | 43.8  | 43.9   | 43.9   | 44.0  | 44.0   | 44.0    | 44.1   |
| ≥ 10000         | 29.6                       | 39.3 | 41.6 | 43.5 | 44.6 | 45.6  | 46.4 | 46.7  | 46.7  | 46.9  | 47.0   | 47.0   | 47.1  | 47.1   | 47.2    | 47.2   |
| ≥ 9000          | 29.9                       | 39.8 | 42.1 | 44.0 | 45.2 | 46.1  | 46.9 | 47.2  | 47.2  | 47.5  | 47.6   | 47.6   | 47.7  | 47.7   | 47.7    | 47.8   |
| ≥ 8000          | 31.0                       | 41.5 | 43.9 | 46.0 | 47.2 | 48.2  | 49.1 | 49.4  | 49.4  | 49.6  | 49.7   | 49.7   | 49.8  | 49.8   | 49.9    | 50.0   |
| ≥ 7000          | 31.5                       | 42.6 | 45.0 | 47.1 | 48.4 | 49.4  | 50.3 | 50.7  | 50.7  | 50.9  | 51.0   | 51.0   | 51.1  | 51.1   | 51.1    | 51.2   |
| ≥ 6000          | 32.1                       | 43.2 | 45.7 | 47.9 | 49.1 | 50.2  | 51.1 | 51.5  | 51.5  | 51.7  | 51.8   | 51.8   | 51.9  | 51.9   | 52.0    | 52.0   |
| ≥ 5000          | 33.3                       | 46.0 | 48.6 | 50.9 | 52.3 | 53.4  | 54.4 | 54.8  | 54.8  | 55.1  | 55.2   | 55.2   | 55.3  | 55.3   | 55.3    | 55.4   |
| ≥ 4500          | 35.7                       | 47.7 | 50.5 | 52.8 | 54.2 | 55.5  | 56.5 | 56.9  | 56.9  | 57.1  | 57.2   | 57.2   | 57.3  | 57.3   | 57.4    | 57.5   |
| ≥ 4000          | 37.1                       | 50.8 | 53.8 | 56.3 | 57.9 | 59.2  | 60.3 | 60.7  | 60.7  | 61.0  | 61.1   | 61.1   | 61.2  | 61.2   | 61.3    | 61.3   |
| ≥ 3500          | 38.8                       | 53.2 | 56.4 | 59.1 | 60.7 | 62.2  | 63.3 | 63.7  | 63.7  | 64.0  | 64.1   | 64.1   | 64.2  | 64.2   | 64.3    | 64.4   |
| ≥ 3000          | 40.9                       | 56.4 | 59.9 | 62.8 | 64.6 | 66.1  | 67.3 | 67.8  | 67.8  | 68.1  | 68.2   | 68.2   | 68.3  | 68.3   | 68.4    | 68.5   |
| ≥ 2500          | 43.2                       | 60.1 | 64.1 | 67.2 | 69.1 | 70.8  | 72.1 | 72.7  | 72.7  | 73.0  | 73.1   | 73.1   | 73.2  | 73.2   | 73.3    | 73.3   |
| ≥ 2000          | 45.4                       | 63.9 | 68.1 | 71.7 | 73.8 | 75.7  | 77.2 | 77.8  | 77.8  | 78.2  | 78.3   | 78.3   | 78.4  | 78.4   | 78.5    | 78.5   |
| ≥ 1800          | 46.1                       | 65.3 | 69.8 | 73.5 | 75.6 | 77.6  | 79.2 | 79.8  | 79.9  | 80.2  | 80.3   | 80.3   | 80.4  | 80.5   | 80.5    | 80.6   |
| ≥ 1500          | 46.9                       | 67.0 | 71.7 | 75.6 | 78.0 | 80.1  | 81.9 | 82.6  | 82.6  | 83.0  | 83.2   | 83.2   | 83.3  | 83.3   | 83.4    | 83.4   |
| ≥ 1200          | 47.5                       | 68.7 | 73.6 | 78.1 | 80.5 | 82.9  | 84.9 | 85.9  | 85.9  | 86.4  | 86.6   | 86.6   | 86.7  | 86.7   | 86.8    | 86.8   |
| ≥ 1000          | 47.8                       | 69.4 | 74.6 | 79.3 | 81.9 | 84.4  | 86.6 | 87.7  | 87.8  | 88.4  | 88.6   | 88.6   | 88.7  | 88.7   | 88.8    | 88.8   |
| ≥ 900           | 47.9                       | 69.9 | 75.2 | 80.0 | 82.7 | 85.3  | 87.6 | 88.8  | 88.9  | 89.5  | 89.8   | 89.8   | 89.9  | 89.9   | 89.9    | 90.0   |
| ≥ 800           | 48.1                       | 70.3 | 75.7 | 80.7 | 83.4 | 86.2  | 88.6 | 89.9  | 90.0  | 90.7  | 91.0   | 91.0   | 91.1  | 91.1   | 91.2    | 91.3   |
| ≥ 700           | 48.1                       | 70.7 | 76.3 | 81.4 | 84.3 | 87.1  | 89.7 | 91.2  | 91.2  | 92.0  | 92.3   | 92.3   | 92.5  | 92.5   | 92.5    | 92.6   |
| ≥ 600           | 48.1                       | 71.7 | 76.6 | 81.9 | 84.9 | 87.9  | 90.7 | 92.2  | 92.3  | 93.1  | 93.5   | 93.5   | 93.7  | 93.7   | 93.8    | 93.8   |
| ≥ 500           | 48.1                       | 71.2 | 77.0 | 82.5 | 85.6 | 88.8  | 91.8 | 93.6  | 93.6  | 94.6  | 95.1   | 95.1   | 95.3  | 95.3   | 95.4    | 95.4   |
| ≥ 400           | 48.2                       | 71.3 | 77.2 | 82.9 | 86.1 | 89.5  | 92.8 | 94.8  | 94.8  | 96.0  | 96.5   | 96.5   | 96.8  | 96.8   | 96.9    | 97.0   |
| ≥ 300           | 48.2                       | 71.4 | 77.3 | 83.1 | 86.4 | 89.9  | 93.3 | 95.5  | 95.6  | 97.0  | 97.6   | 97.6   | 97.9  | 97.9   | 98.0    | 98.1   |
| ≥ 200           | 48.2                       | 71.4 | 77.3 | 83.1 | 86.5 | 90.0  | 93.6 | 95.8  | 95.9  | 97.5  | 98.2   | 98.3   | 98.7  | 98.7   | 98.9    | 99.0   |
| ≥ 100           | 48.2                       | 71.4 | 77.3 | 83.1 | 86.5 | 90.0  | 93.6 | 95.9  | 96.0  | 97.6  | 98.4   | 98.5   | 99.0  | 99.0   | 99.3    | 99.5   |
| ≥ 0             | 48.2                       | 71.4 | 77.3 | 83.1 | 86.5 | 90.0  | 93.6 | 95.9  | 96.0  | 97.6  | 98.5   | 98.5   | 99.0  | 99.1   | 99.4    | 100.0  |

TOTAL NUMBER OF OBSERVATIONS 76342

## PART D

## SKY COVER

Stations that report both synoptic and airways observations have had their sky cover reports converted into airways. The synoptic hours have significantly lower observation counts than the airways, hence, a small percentage of observations were reported in the 1/10, 4/10, 5/10, 6/10, and 8/10 categories. In order to use this data more beneficially we have combined:

1/10, 4/10, and 5/10 into the 3/10 (scattered) category  
6/10 and 8/10 into the 9/10 (broken) category  
0/10 is the clear category  
10/10 is the overcast category

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AL- WEATHER SERVICE/MAC

## SKY COVER

12-251 YOUNGSTOWN MAP OH

73-81

JAN

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS |      |
|--------|-------------------|---|---|---|------|---|---|---|---|---|------|--------------------------------|------------------------|------|
|        |                   | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    |                                |                        | 10   |
| JAN    | 00-02             | 15.3  |   |   | 7.2  |   |   |   |   |   | 9.9  | 67.6                           | 7.9                    | 821  |
|        | 03-05             | 14.4  |   |   | 5.3  |   |   |   |   |   | 7.2  | 73.1                           | 8.1                    | 810  |
|        | 06-08             | 8.1   |   |   | 7.9  |   |   |   |   |   | 8.6  | 75.3                           | 8.5                    | 823  |
|        | 09-11             | 4.0   |   |   | 10.4 |   |   |   |   |   | 15.1 | 70.6                           | 8.7                    | 810  |
|        | 12-14             | 2.4   |   |   | 10.3 |   |   |   |   |   | 19.9 | 67.3                           | 8.8                    | 823  |
|        | 15-17             | 4.4   |   |   | 9.5  |   |   |   |   |   | 18.0 | 68.0                           | 8.7                    | 820  |
|        | 18-20             | 8.7   |   |   | 11.1 |   |   |   |   |   | 14.3 | 65.9                           | 8.2                    | 826  |
|        | 21-23             | 11.8  |   |   | 8.0  |   |   |   |   |   | 12.8 | 67.4                           | 8.1                    | 825  |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                        |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                        |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                        |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                        |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                        |      |
| TOTALS |                   | 8.6   |   |   | 8.7  |   |   |   |   |   | 13.2 | 69.4                           | 8.4                    | 6558 |

USAFETAC

FORM  
AA 44 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



## SKY COVER

**FEB**

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |      |
|--------|-------------------|---|---|---|------|---|---|---|---|---|------|--------------------------------|-------------------------|------|
|        |                   | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    |                                |                         | 10   |
| FEB    | 0-02              | 20.3  |   |   | 9.2  |   |   |   |   |   | 10.1 | 60.4                           | 7.2                     | 750  |
|        | 03-05             | 17.5  |   |   | 7.2  |   |   |   |   |   | 9.8  | 65.5                           | 7.6                     | 733  |
|        | 06-08             | 13.2  |   |   | 7.7  |   |   |   |   |   | 14.2 | 64.9                           | 8.0                     | 744  |
|        | 09-11             | 8.9   |   |   | 14.7 |   |   |   |   |   | 16.8 | 59.6                           | 7.9                     | 730  |
|        | 12-14             | 5.9   |   |   | 13.4 |   |   |   |   |   | 24.3 | 56.5                           | 8.2                     | 749  |
|        | 15-17             | 6.3   |   |   | 14.5 |   |   |   |   |   | 21.0 | 58.2                           | 8.2                     | 752  |
|        | 18-20             | 11.8  |   |   | 15.4 |   |   |   |   |   | 17.1 | 55.7                           | 7.6                     | 748  |
|        | 21-23             | 17.1  |   |   | 10.8 |   |   |   |   |   | 14.8 | 57.2                           | 7.4                     | 748  |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
| TOTALS |                   | 12.6  |   |   | 11.6 |   |   |   |   |   | 16.0 | 59.8                           | 7.8                     | 5954 |

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## SKY COVER

APR

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |      |
|--------|-------------------|---|---|---|------|---|---|---|---|---|------|--------------------------------|-------------------------|------|
|        |                   | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    | 10                             |                         |      |
| APR    | 00-02             | 28.4  |   |   | 11.3 |   |   |   |   |   | 11.6 | 48.7                           | 6.2                     | 795  |
|        | 03-05             | 28.1  |   |   | 12.6 |   |   |   |   |   | 11.7 | 47.5                           | 6.2                     | 783  |
|        | 06-08             | 18.2  |   |   | 17.2 |   |   |   |   |   | 17.6 | 46.9                           | 6.8                     | 795  |
|        | 09-11             | 14.5  |   |   | 14.8 |   |   |   |   |   | 18.4 | 52.4                           | 7.3                     | 800  |
|        | 12-14             | 11.4  |   |   | 15.4 |   |   |   |   |   | 21.9 | 51.3                           | 7.6                     | 798  |
|        | 15-17             | 11.2  |   |   | 17.8 |   |   |   |   |   | 22.0 | 49.1                           | 7.4                     | 797  |
|        | 18-20             | 16.0  |   |   | 16.8 |   |   |   |   |   | 19.5 | 47.6                           | 7.0                     | 798  |
|        | 21-23             | 26.3  |   |   | 12.3 |   |   |   |   |   | 12.3 | 49.0                           | 6.4                     | 794  |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
| TOTALS |                   | 19.3  |   |   | 14.8 |   |   |   |   |   | 16.9 | 49.1                           | 6.9                     | 6360 |

## SKY COVER

**MAY**

MONTH

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |      |
|--------|-------------------|---|---|---|------|---|---|---|---|---|------|--------------------------------|-------------------------|------|
|        |                   | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    |                                |                         | 10   |
| MAY    | 10-02             | 32.3  |   |   | 15.0 |   |   |   |   |   | 11.9 | 40.8                           | 5.6                     | 773  |
|        | 13-05             | 31.6  |   |   | 13.6 |   |   |   |   |   | 12.8 | 41.9                           | 5.8                     | 763  |
|        | 16-08             | 22.0  |   |   | 13.9 |   |   |   |   |   | 18.6 | 45.4                           | 6.6                     | 821  |
|        | 09-11             | 16.7  |   |   | 14.9 |   |   |   |   |   | 20.2 | 48.2                           | 7.1                     | 812  |
|        | 12-14             | 8.7   |   |   | 18.3 |   |   |   |   |   | 28.9 | 44.1                           | 7.6                     | 824  |
|        | 15-17             | 12.2  |   |   | 20.2 |   |   |   |   |   | 21.8 | 45.8                           | 7.1                     | 818  |
|        | 18-20             | 16.3  |   |   | 20.5 |   |   |   |   |   | 20.5 | 42.7                           | 6.7                     | 824  |
|        | 21-23             | 29.6  |   |   | 15.4 |   |   |   |   |   | 13.6 | 41.3                           | 5.8                     | 786  |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
| TOTALS |                   | 21.2  |   |   | 16.5 |   |   |   |   |   | 18.5 | 43.8                           | 6.5                     | 6421 |

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

## SKY COVER

**JUN**

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |      |
|--------|-------------------|---|---|---|------|---|---|---|---|---|------|--------------------------------|-------------------------|------|
|        |                   | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    |                                |                         | 10   |
| JUN    | 00-02             | 35.6  |   |   | 17.8 |   |   |   |   |   | 16.1 | 30.5                           | 5.0                     | 702  |
|        | 03-05             | 31.7  |   |   | 19.0 |   |   |   |   |   | 14.8 | 34.4                           | 5.4                     | 688  |
|        | 06-08             | 20.8  |   |   | 20.8 |   |   |   |   |   | 22.1 | 36.3                           | 6.2                     | 793  |
|        | 09-11             | 15.0  |   |   | 19.6 |   |   |   |   |   | 28.8 | 36.6                           | 6.8                     | 787  |
|        | 12-14             | 5.9   |   |   | 22.6 |   |   |   |   |   | 37.2 | 34.3                           | 7.5                     | 801  |
|        | 15-17             | 7.1   |   |   | 26.6 |   |   |   |   |   | 30.3 | 35.9                           | 7.1                     | 785  |
|        | 18-20             | 15.1  |   |   | 27.9 |   |   |   |   |   | 24.9 | 32.2                           | 6.3                     | 796  |
|        | 21-23             | 25.9  |   |   | 25.7 |   |   |   |   |   | 15.0 | 33.4                           | 5.5                     | 734  |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
| TOTALS |                   | 19.6  |   |   | 22.5 |   |   |   |   |   | 23.7 | 34.2                           | 6.2                     | 6086 |

FORM 8-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

## SKY COVER

225 YOUNGSTOWN MAP OH

73-81

JUL

STATION

STATION NAME

PERIOD

MONITOR

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |      |
|--------|-------------------|---|---|---|------|---|---|---|---|---|------|--------------------------------|-------------------------|------|
|        |                   | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    |                                |                         | 10   |
| JUL    | 00-02             | 45.3  |   |   | 15.5 |   |   |   |   |   | 12.9 | 26.3                           | 4.3                     | 727  |
|        | 03-05             | 39.5  |   |   | 16.6 |   |   |   |   |   | 14.0 | 29.9                           | 4.7                     | 709  |
|        | 06-08             | 23.9  |   |   | 23.9 |   |   |   |   |   | 20.9 | 31.3                           | 5.7                     | 804  |
|        | 09-11             | 15.6  |   |   | 27.1 |   |   |   |   |   | 27.4 | 29.8                           | 6.3                     | 818  |
|        | 12-14             | 6.9   |   |   | 24.8 |   |   |   |   |   | 35.9 | 32.4                           | 7.2                     | 822  |
|        | 15-17             | 8.7   |   |   | 31.1 |   |   |   |   |   | 29.1 | 31.1                           | 6.7                     | 817  |
|        | 18-20             | 20.8  |   |   | 28.1 |   |   |   |   |   | 26.3 | 24.8                           | 5.7                     | 828  |
|        | 21-23             | 33.3  |   |   | 25.4 |   |   |   |   |   | 16.7 | 24.5                           | 4.7                     | 759  |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
| TOTALS |                   | 24.3  |   |   | 24.1 |   |   |   |   |   | 22.9 | 28.8                           | 5.7                     | 6284 |

## SKY COVER

AUG

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS |
|--------|-------------------|---|---|---|------|---|---|---|---|---|------|------|--------------------------------|------------------------|
|        |                   | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    | 10   |                                |                        |
| AUG    | 00-02             | 34.0  |   |   | 16.4 |   |   |   |   |   | 12.3 | 37.3 | 5.3                            | 721                    |
|        | 03-05             | 29.4  |   |   | 15.4 |   |   |   |   |   | 10.5 | 44.8 | 5.9                            | 708                    |
|        | 06-08             | 15.4  |   |   | 20.0 |   |   |   |   |   | 20.1 | 44.4 | 6.9                            | 810                    |
|        | 09-11             | 11.8  |   |   | 21.4 |   |   |   |   |   | 24.2 | 42.6 | 7.1                            | 807                    |
|        | 12-14             | 3.5   |   |   | 20.4 |   |   |   |   |   | 36.9 | 39.1 | 7.8                            | 818                    |
|        | 15-17             | 5.5   |   |   | 23.2 |   |   |   |   |   | 34.9 | 36.4 | 7.5                            | 814                    |
|        | 18-20             | 15.6  |   |   | 25.1 |   |   |   |   |   | 25.2 | 34.1 | 6.4                            | 816                    |
|        | 21-23             | 27.6  |   |   | 20.2 |   |   |   |   |   | 18.8 | 33.4 | 5.6                            | 751                    |
|        |                   |   |   |   |      |   |   |   |   |   |      |      |                                |                        |
|        |                   |   |   |   |      |   |   |   |   |   |      |      |                                |                        |
|        |                   |   |   |   |      |   |   |   |   |   |      |      |                                |                        |
|        |                   |   |   |   |      |   |   |   |   |   |      |      |                                |                        |
|        |                   |   |   |   |      |   |   |   |   |   |      |      |                                |                        |
| TOTALS |                   | 17.0  |   |   | 20.3 |   |   |   |   |   | 22.9 | 39.0 | 6.6                            | 6245                   |

## SKY COVER

SEP

STATION

STAT ON NAME

PERIOD

1000

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |      |
|--------|----------------|---|---|---|------|---|---|---|---|---|------|--------------------------------|-------------------------|------|
|        |                | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    |                                |                         | 10   |
| SEP    | 0-02           | 35.4  |   |   | 15.2 |   |   |   |   |   | 14.1 | 35.4                           | 5.3                     | 752  |
|        | 3-05           | 33.3  |   |   | 13.2 |   |   |   |   |   | 13.8 | 39.7                           | 5.6                     | 745  |
|        | 6-08           | 23.0  |   |   | 17.7 |   |   |   |   |   | 17.2 | 42.1                           | 6.3                     | 786  |
|        | 9-11           | 17.4  |   |   | 16.3 |   |   |   |   |   | 23.2 | 43.1                           | 6.9                     | 789  |
|        | 12-14          | 9.9   |   |   | 18.0 |   |   |   |   |   | 29.5 | 42.6                           | 7.5                     | 799  |
|        | 15-17          | 12.1  |   |   | 22.0 |   |   |   |   |   | 27.5 | 38.4                           | 7.0                     | 792  |
|        | 18-20          | 23.5  |   |   | 22.2 |   |   |   |   |   | 19.5 | 34.8                           | 5.9                     | 796  |
|        | 21-23          | 35.2  |   |   | 13.5 |   |   |   |   |   | 13.7 | 37.6                           | 5.4                     | 769  |
|        |                |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
| TOTALS |                | 23.7  |   |   | 17.3 |   |   |   |   |   | 19.8 | 39.2                           | 6.2                     | 6228 |

USAFETAC FORM 9-9-5 (OL A) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.



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|         |                   |        |       |
|---------|-------------------|--------|-------|
| 25      | YOUNGSTOWN MAP OH | 73-81  | OCT   |
| STATION | STATION NAME      | PERIOD | MONTH |

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |      |
|--------|----------------|---|---|---|------|---|---|---|---|---|------|--------------------------------|-------------------------|------|
|        |                | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    |                                |                         | 10   |
| JUL    | 00-02          | 34.1  |   |   | 9.5  |   |   |   |   |   | 11.3 | 45.1                           | 5.8                     | 813  |
|        | 03-05          | 33.0  |   |   | 9.0  |   |   |   |   |   | 11.9 | 46.2                           | 6.0                     | 801  |
|        | 06-08          | 20.2  |   |   | 16.4 |   |   |   |   |   | 19.0 | 44.4                           | 6.6                     | 817  |
|        | 09-11          | 15.5  |   |   | 19.2 |   |   |   |   |   | 19.7 | 45.7                           | 6.9                     | 819  |
|        | 12-14          | 11.5  |   |   | 17.5 |   |   |   |   |   | 22.1 | 48.9                           | 7.4                     | 828  |
|        | 15-17          | 13.1  |   |   | 17.1 |   |   |   |   |   | 22.7 | 47.1                           | 7.3                     | 819  |
|        | 18-20          | 21.4  |   |   | 17.4 |   |   |   |   |   | 19.0 | 42.2                           | 6.5                     | 822  |
|        | 21-23          | 29.8  |   |   | 13.6 |   |   |   |   |   | 12.2 | 44.3                           | 5.9                     | 821  |
|        |                |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
| TOTALS |                | 22.3  |   |   | 15.0 |   |   |   |   |   | 17.2 | 45.5                           | 6.6                     | 6540 |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AF WEATHER SERVICE/MAC

## SKY COVER

2-25:

YOUNGSTOWN MAP OH

73-81

NOV

STATION

STATION NAME

PER DO

— 200 —

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |      |
|--------|-------------------|---|---|---|------|---|---|---|---|---|------|--------------------------------|-------------------------|------|
|        |                   | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    |                                |                         | 10   |
| NOV    | 00-02             | 18.8  |   |   | 11.1 |   |   |   |   |   | 9.8  | 60.3                           | 7.2                     | 786  |
|        | 03-05             | 19.0  |   |   | 8.3  |   |   |   |   |   | 10.6 | 62.2                           | 7.4                     | 775  |
|        | 06-08             | 14.0  |   |   | 9.5  |   |   |   |   |   | 13.6 | 62.9                           | 7.8                     | 793  |
|        | 09-11             | 9.5   |   |   | 11.1 |   |   |   |   |   | 16.0 | 63.4                           | 8.1                     | 796  |
|        | 12-14             | 7.3   |   |   | 14.6 |   |   |   |   |   | 15.9 | 62.2                           | 8.1                     | 799  |
|        | 15-17             | 8.8   |   |   | 13.6 |   |   |   |   |   | 18.1 | 59.5                           | 8.0                     | 792  |
|        | 18-20             | 16.6  |   |   | 9.5  |   |   |   |   |   | 15.0 | 59.0                           | 7.5                     | 802  |
|        | 21-23             | 19.5  |   |   | 8.0  |   |   |   |   |   | 10.3 | 62.3                           | 7.4                     | 790  |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
| TOTALS |                   | 14.2  |   |   | 10.7 |   |   |   |   |   | 13.7 | 61.5                           | 7.7                     | 6333 |

2

## SKY COVER

STATION

STATION NAME

PER-00



PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS. |      |
|--------|-------------------|---|---|---|------|---|---|---|---|---|------|--------------------------------|-------------------------|------|
|        |                   | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    |                                |                         | 10   |
| DEC    | 0-02              | 10.7  |   |   | 7.6  |   |   |   |   |   | 9.9  | 71.8                           | 8.3                     | 826  |
|        | 03-05             | 12.0  |   |   | 5.8  |   |   |   |   |   | 9.3  | 72.9                           | 8.3                     | 814  |
|        | 06-08             | 7.7   |   |   | 10.4 |   |   |   |   |   | 10.5 | 71.3                           | 8.4                     | 827  |
|        | 09-11             | 5.8   |   |   | 8.4  |   |   |   |   |   | 13.6 | 72.2                           | 8.7                     | 825  |
|        | 12-14             | 4.4   |   |   | 8.5  |   |   |   |   |   | 18.9 | 68.3                           | 8.8                     | 827  |
|        | 15-17             | 3.0   |   |   | 7.2  |   |   |   |   |   | 18.0 | 71.8                           | 9.0                     | 822  |
|        | 18-20             | 7.7   |   |   | 7.1  |   |   |   |   |   | 14.3 | 70.8                           | 8.6                     | 826  |
|        | 21-23             | 8.9   |   |   | 7.2  |   |   |   |   |   | 11.1 | 72.8                           | 8.5                     | 819  |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
|        |                   |   |   |   |      |   |   |   |   |   |      |                                |                         |      |
| TOTALS |                   | 7.5   |   |   | 7.8  |   |   |   |   |   | 13.2 | 71.5                           | 8.6                     | 6586 |

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## SKY COVER

12-25

YOUNGSTOWN MAP OH

73-81

ALL

STATION

STATION NAME

PERIOD

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER |   |   |      |   |   |   |   |   |      |      | MEAN<br>TENTHS OF<br>SKY COVER | TOTAL<br>NO. OF<br>OBS |
|--------|-------------------|---|---|---|------|---|---|---|---|---|------|------|--------------------------------|------------------------|
|        |                   | 0   | 1 | 2 | 3    | 4 | 5 | 6 | 7 | 8 | 9    | 10   |                                |                        |
| JAN    | ALL               | 8.6   |   |   | 8.7  |   |   |   |   |   | 13.2 | 69.4 | 8.4                            | 6558                   |
| FEB    |                   | 12.6  |   |   | 11.6 |   |   |   |   |   | 16.0 | 59.8 | 7.8                            | 5954                   |
| MAR    |                   | 14.2  |   |   | 10.9 |   |   |   |   |   | 14.7 | 60.2 | 7.7                            | 6534                   |
| APR    |                   | 19.3  |   |   | 14.8 |   |   |   |   |   | 16.9 | 49.1 | 6.9                            | 6360                   |
| MAY    |                   | 21.2  |   |   | 16.5 |   |   |   |   |   | 18.5 | 43.8 | 6.5                            | 6421                   |
| JUN    |                   | 19.6  |   |   | 22.5 |   |   |   |   |   | 23.7 | 34.2 | 6.2                            | 6086                   |
| JUL    |                   | 24.3  |   |   | 24.1 |   |   |   |   |   | 22.9 | 28.8 | 5.7                            | 6284                   |
| AUG    |                   | 17.9  |   |   | 20.3 |   |   |   |   |   | 22.9 | 39.0 | 6.6                            | 6245                   |
| SEP    |                   | 23.7  |   |   | 17.3 |   |   |   |   |   | 19.8 | 39.2 | 6.2                            | 6228                   |
| OCT    |                   | 22.3  |   |   | 15.0 |   |   |   |   |   | 17.2 | 45.5 | 6.6                            | 6540                   |
| NOV    |                   | 14.2  |   |   | 10.7 |   |   |   |   |   | 13.7 | 61.5 | 7.7                            | 6333                   |
| DEC    |                   | 7.5   |   |   | 7.8  |   |   |   |   |   | 13.2 | 71.5 | 8.6                            | 6586                   |
| TOTALS |                   | 17.1  |   |   | 15.0 |   |   |   |   |   | 17.7 | 50.2 | 7.1                            | 76129                  |

USAFETAC

FORM JUL 64 0-9-5 (OL A)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentations follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviations, and total number of observations in three separate tables as follows:

- a. Daily maximum temperatures
- b. Daily minimum temperatures
- c. Daily mean temperatures

NOTE: Beginning in January 1964, daily maximum and minimum temperatures are routinely selected from hourly observations recorded on surface observing forms or from automated data collections for all Air Force operated stations. For those stations observing less than 24 hours per day, and where maximum and minimum temperatures are required but not recorded, these are also selected from hourly data from as early as January 1949 and later. Please refer to notations on summary pages and Station History for further information on reporting practices of individual stations.

2. Extreme values - derived from daily observations with the extreme value selected for each year and month of record available. An annual (ALL MONTHS) value is selected when all months for a year have valid extremes. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extremes are prepared:

- a. Extreme maximum temperature
- b. Extreme minimum temperature

NOTE: The following symbols are used in the extreme data blocks:

- (1) \* indicates the extreme was selected from a month with one or more days missing.
- (2) # indicates the extreme was selected from a month in which hourly temperatures were available for less than 24 hours for at least one day in the month.

Values for means and standard deviations do not include measurements for incomplete months.

Continued on Reverse

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The following information is provided:

- a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature spread vertically. Also provided for each of the dry-bulb intervals is the percentage of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may be continued on several pages.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computation for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulation by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years combined are presented in the following three tables; DRY-BULB TEMPERATURE, WET-BULB TEMPERATURE, and DEW-POINT TEMPERATURE.
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

2

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC  
25-25-1 YOUNGSTOWN MAP OH  
STATION STATION NAME

49-64, 66-81

YEARS

## DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MAXIMUM

| TEMP (°F)  | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   | OCT    | NOV    | DEC    | ANNUAL |
|------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 100        |        |        |        |        |        |       | .1    |       |       |        |        |        | .0     |
| 95         |        |        |        |        |        | .3    | .6    | .5    | .5    |        |        |        | .2     |
| 90         |        |        |        |        | .5     | 4.5   | 8.4   | 4.2   | 2.2   |        |        |        | 1.7    |
| 85         |        |        |        | .4     | 4.5    | 22.4  | 31.1  | 22.5  | 8.9   | .6     |        |        | 7.6    |
| 80         |        |        | .2     | 4.2    | 16.3   | 46.7  | 65.2  | 57.0  | 24.9  | 4.1    | .1     |        | 18.4   |
| 75         |        |        | .9     | 10.8   | 33.1   | 69.0  | 87.1  | 82.2  | 43.5  | 13.1   | .3     |        | 28.5   |
| 70         | .1     |        | 3.0    | 20.1   | 49.6   | 84.8  | 96.9  | 95.1  | 64.4  | 26.8   | 2.5    |        | 37.2   |
| 65         | .2     | .6     | 7.8    | 30.8   | 65.2   | 94.1  | 99.3  | 99.2  | 82.7  | 41.5   | 9.7    | .5     | 44.5   |
| 60         | 1.2    | 1.4    | 13.5   | 46.1   | 78.8   | 98.1  | 99.9  | 99.9  | 94.3  | 58.5   | 18.1   | 3.2    | 51.3   |
| 55         | 4.7    | 5.1    | 21.7   | 58.3   | 90.8   | 99.5  | 100.0 | 100.0 | 98.2  | 74.1   | 29.5   | 8.2    | 57.8   |
| 50         | 9.4    | 10.2   | 33.3   | 72.0   | 96.3   | 100.0 |       |       | 99.8  | 87.0   | 43.1   | 13.6   | 64.0   |
| 45         | 15.0   | 19.1   | 44.7   | 84.0   | 99.1   |       |       |       | 100.0 | 94.2   | 58.2   | 20.5   | 69.8   |
| 40         | 25.8   | 30.3   | 59.1   | 93.5   | 99.9   |       |       |       |       | 98.5   | 72.2   | 32.8   | 76.2   |
| 35         | 39.9   | 48.0   | 75.1   | 98.1   | 100.0  |       |       |       |       | 99.8   | 85.7   | 49.9   | 83.2   |
| 30         | 56.6   | 67.5   | 88.7   | 99.6   |        |       |       |       |       | 100.0  | 95.3   | 69.5   | 89.8   |
| 25         | 72.8   | 80.4   | 96.1   | 100.0  |        |       |       |       |       |        | 99.1   | 85.4   | 94.5   |
| 20         | 84.1   | 89.3   | 99.0   |        |        |       |       |       |       |        | 99.7   | 93.9   | 97.2   |
| 15         | 93.0   | 95.4   | 99.8   |        |        |       |       |       |       |        | 100.0  | 98.1   | 98.9   |
| 10         | 97.9   | 98.6   | 100.0  |        |        |       |       |       |       |        |        | 99.4   | 99.7   |
| 5          | 99.3   | 99.8   |        |        |        |       |       |       |       |        |        | 100.0  | 99.9   |
| 0          | 99.7   | 100.0  |        |        |        |       |       |       |       |        |        |        | 100.0  |
| -5         | 100.0  |        |        |        |        |       |       |       |       |        |        |        | 100.0  |
| MEAN       | 31.9   | 34.2   | 44.1   | 57.9   | 68.7   | 77.8  | 81.3  | 80.0  | 72.9  | 61.8   | 47.6   | 35.8   | 57.8   |
| S.D.       | 12.208 | 11.673 | 12.740 | 12.479 | 10.279 | 7.929 | 6.067 | 5.939 | 8.671 | 10.684 | 11.741 | 11.317 | 20.610 |
| TOTAL OBS. | 989    | 904    | 992    | 960    | 992    | 960   | 992   | 992   | 960   | 992    | 960    | 992    | 11685  |

USAFETAC FORM 0-21-3 (OL 1) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
 USAFETAC  
 AIR WEATHER SERVICE/MAC  
 1251 YOUNGSTOWN MAP OH  
 STATION STATION NAME

# DAILY TEMPERATURES

49-64, 66-81

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

MINIMUM

| TEMP (°F)  | JAN.   | FEB.   | MAR.  | APR.  | MAY   | JUN.  | JUL.  | AUG.  | SEP.  | OCT.  | NOV.  | DEC.   | ANNUAL |
|------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 75         |        |        |       |       |       | .1    | .1    |       |       |       |       |        | .0     |
| 70         |        |        |       |       |       | 1.2   | 3.2   | 2.6   | .3    |       |       |        | .6     |
| 65         |        |        |       |       | .4    | 13.9  | 23.8  | 17.2  | 7.5   | .2    |       |        | 5.3    |
| 60         |        |        |       | 1.8   | 7.4   | 34.3  | 51.0  | 45.4  | 19.7  | 2.5   | .4    |        | 13.6   |
| 55         | .1     |        | .2    | 5.6   | 19.4  | 55.1  | 75.8  | 70.9  | 36.6  | 9.3   | 2.0   | .1     | 23.1   |
| 50         | .4     | .1     | 1.9   | 12.5  | 36.2  | 76.5  | 92.8  | 88.6  | 56.4  | 18.2  | 4.7   | .8     | 32.6   |
| 45         | .6     | 1.0    | 4.0   | 22.5  | 52.0  | 90.4  | 98.8  | 98.0  | 76.6  | 34.6  | 10.4  | 1.6    | 41.1   |
| 40         | 1.7    | 2.3    | 10.7  | 36.5  | 72.8  | 97.5  | 100.0 | 100.0 | 90.9  | 56.8  | 21.5  | 3.8    | 49.8   |
| 35         | 5.8    | 7.1    | 20.5  | 53.4  | 90.0  | 99.8  |       |       | 99.1  | 79.8  | 37.5  | 10.7   | 58.9   |
| 30         | 8.7    | 10.5   | 25.9  | 62.6  | 94.3  | 99.9  |       |       | 99.7  | 85.7  | 45.8  | 15.6   | 62.6   |
| 25         | 15.4   | 19.0   | 36.9  | 76.0  | 98.6  | 100.0 |       |       | 99.9  | 93.7  | 62.1  | 25.4   | 69.1   |
| 20         | 31.2   | 33.0   | 57.2  | 92.4  | 99.8  |       |       |       | 100.0 | 98.9  | 83.0  | 43.3   | 78.4   |
| 15         | 45.7   | 50.4   | 75.7  | 98.1  | 100.0 |       |       |       |       | 100.0 | 93.2  | 63.6   | 85.7   |
| 10         | 58.6   | 64.2   | 89.1  | 99.8  |       |       |       |       |       |       | 97.2  | 77.5   | 90.6   |
| 5          | 73.5   | 77.2   | 95.6  | 100.0 |       |       |       |       |       |       | 98.5  | 88.0   | 94.5   |
| 0          | 83.9   | 86.0   | 98.4  |       |       |       |       |       |       |       | 99.7  | 94.8   | 96.9   |
| -5         | 93.0   | 92.8   | 99.8  |       |       |       |       |       |       |       | 100.0 | 97.7   | 98.6   |
| -10        | 97.2   | 97.3   | 100.0 |       |       |       |       |       |       |       |       | 99.5   | 99.5   |
| -15        | 99.1   | 99.4   |       |       |       |       |       |       |       |       |       | 100.0  | 99.9   |
| -20        | 99.9   | 100.0  |       |       |       |       |       |       |       |       |       |        | 100.0  |
| -25        | 100.0  |        |       |       |       |       |       |       |       |       |       |        | 100.0  |
| MEAN       | 17.3   | 18.4   | 26.5  | 36.9  | 45.9  | 55.4  | 59.4  | 58.2  | 51.3  | 41.7  | 32.5  | 22.4   | 38.8   |
| S.D.       | 11.905 | 11.851 | 9.998 | 9.855 | 8.885 | 7.888 | 6.333 | 6.575 | 8.568 | 8.566 | 9.509 | 10.535 | 17.486 |
| TOTAL OBS. | 989    | 904    | 992   | 960   | 992   | 960   | 992   | 992   | 960   | 992   | 960   | 992    | 11665  |



## GLOBAL CLIMATOLOGY BRANCH

SAFETAC

AI- LEATHER SERVICE/MAC

7250 YOUNGSTOWN MAP OH  
STATION STATION NAME

49-64, 66-81

**YEARS**

## DAILY TEMPERATURES

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MEAN

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## EXTREME VALUES

MAXIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

49-64, 66-81

YEARS

### WHOLE DEGREES FAHRENHEIT

| YEAR      | MONTH | JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | ALL MONTHS |
|-----------|-------|------|------|------|------|-----|------|------|------|------|------|------|------|------------|
| 49        | *     | 58   | 63   | 71   | 77   | 90  | 92   | 96   | 93   | 85   | 87   | 73   | 62   | 96         |
| 50        |       | 71   | 47   | 76   | 71   | 85  | 90   | 88   | 92   | 82   | 81   | 79   | 54   | 92         |
| 51        |       | 61   | 62   | 67   | 80   | 84  | 88   | 88   | 91   | 86   | 87   | 66   | 60   | 91         |
| 52        |       | 62   | 53   | 66   | 80   | 78  | 99   | 94   | 89   | 95   | 85   | 69   | 64   | 99         |
| 53        |       | 57   | 58   | 67   | 75   | 84  | 92   | 90   | 97   | 96   | 84   | 69   | 61   | 97         |
| 54        |       | 57   | 65   | 68   | 84   | 85  | 92   | 100  | 90   | 99   | 83   | 70   | 55   | 100        |
| 55        |       | 57   | 55   | 68   | 77   | 86  | 86   | 92   | 95   | 90   | 78   | 70   | 60   | 95         |
| 56        |       | 48   | 56   | 64   | 79   | 86  | 92   | 90   | 88   | 85   | 80   | 71   | 66   | 92         |
| 57        |       | 54   | 65   | 69   | 85   | 82  | 91   | 91   | 91   | 90   | 72   | 65   | 58   | 91         |
| 58        |       | 45   | 53   | 58   | 82   | 83  | 87   | 88   | 86   | 85   | 78   | 72   | 51   | 88         |
| 59        |       | 59   | 62   | 70   | 77   | 87  | 92   | 91   | 92   | 92   | 82   | 67   | 58   | 92         |
| 60        |       | 56   | 56   | 72   | 85   | 82  | 86   | 88   | 87   | 88   | 79   | 65   | 60   | 88         |
| 61        |       | 50   | 67   | 72   | 74   | 83  | 88   | 89   | 89   | 88   | 79   | 80   | 60   | 89         |
| 62        |       | 54   | 56   | 75   | 83   | 92  | 88   | 90   | 90   | 87   | 81   | 63   | 61   | 92         |
| 63        |       | 47   | 47   | 76   | 81   | 88  | 91   | 90   | 82   | 83   | 84   | 63   | 45   | 91         |
| 64        |       | 53   | 45   | 65   | 81   | 88  | 90   | 91   | 87   | 92   | 79   | 71   | 63   | 92         |
| 66        |       | 52   | 51   | 76   | 77   | 84  | 92   | 97   | 86   | 87   | 77   | 66   | 65   | 97         |
| 67        |       | 62   | 56   | 75   | 77   | 87  | 92   | 86   | 86   | 80   | 81   | 62   | 64   | 92         |
| 68        |       | 43   | 51   | 72   | 76   | 74  | 89   | 90   | 92   | 85   | 80   | 73   | 57   | 92         |
| 69        |       | 58   | 48   | 69   | 80   | 87  | 91   | 88   | 89   | 85   | 83   | 59   | 38   | 91         |
| 70        |       | 52   | 51   | 54   | 85   | 85  | 87   | 88   | 89   | 88   | 77   | 62   | 62   | 89         |
| 71        |       | 53   | 60   | 67   | 79   | 85  | 95   | 90   | 88   | 88   | 81   | 70   | 69   | 95         |
| 72        |       | 62   | 52   | 67   | 75   | 83  | 85   | 90   | 87   | 82   | 71   | 62   | 60   | 90         |
| 73        |       | 59   | 57   | 70   | 77   | 77  | 88   | 91   | 93   | 90   | 76   | 65   | 60   | 93         |
| 74        |       | 59   | 52   | 72   | 82   | 84  | 87   | 92   | 85   | 78   | 74   | 72   | 46   | 92         |
| 75        |       | 60   | 59   | 65   | 74   | 86  | 88   | 92   | 93   | 76   | 81   | 74   | 62   | 93         |
| 76        |       | 49   | 66   | 80   | 87   | 80  | 88   | 88   | 86   | 87   | 74   | 61   | 52   | 88         |
| 77        |       | 30   | 62   | 80   | 82   | 88  | 87   | 93   | 89   | 88   | 74   | 75   | 58   | 93         |
| 78        |       | 47   | 36   | 60   | 79   | 86  | 88   | 92   | 88   | 93   | 75   | 70   | 58   | 93         |
| 79        |       | 59   | 47   | 72   | 81   | 88  | 85   | 88   | 86   | 85   | 80   | 70   | 61   | 88         |
| MEAN      |       |      |      |      |      |     |      |      |      |      |      |      |      |            |
| S.D.      |       |      |      |      |      |     |      |      |      |      |      |      |      |            |
| TOTAL OBS |       |      |      |      |      |     |      |      |      |      |      |      |      |            |

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC

FORM  
JUL 64

0-88-5 (OLA)

(AT LEAST ONE DAY LESS THAN 24 OBS)

(AT LEAST ONE DAY LESS THAN 24 OBS)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# EXTREME VALUES

MINIMUM TEMPERATURE

(FROM DAILY OBSERVATIONS)

72° 25' N YOUNGSTOWN MAP OH  
STATION STATION NAME

49-64, 66-81 YEARS

WHOLE DEGREES FAHRENHEIT

| MONTH<br>YEAR | JAN. | FEB. | MAR. | APR. | MAY | JUN. | JUL. | AUG. | SEP. | OCT. | NOV. | DEC. | ALL<br>MONTHS |   |     |
|---------------|------|------|------|------|-----|------|------|------|------|------|------|------|---------------|---|-----|
| 49            | *    | 0    | 7    | 10   | 22  | 30   | 35   | 55   | 45   | 36   | 26   | 13   | 10            | * | 0   |
| 50            |      | 11   | 4    | 3    | 11  | 28   | 36   | 51   | 43   | 37   | 32   | 6    | -7            |   | -7  |
| 51            |      | 4    | -11  | 15   | 26  | 37   | 44   | 49   | 44   | 37   | 32   | 9    | -9            |   | -11 |
| 52            |      | 3    | 10   | 11   | 28  | 33   | 44   | 50   | 43   | 37   | 21   | 10   | 12            |   | 3   |
| 53            |      | 7    | 5    | 11   | 24  | 39   | 44   | 44   | 45   | 35   | 27   | 16   | 5             |   | 5   |
| 54            |      | 0    | 7    | 10   | 16  | 31   | 45   | 46   | 47   | 35   | 28   | 23   | 8             |   | 0   |
| 55            |      | -3   | -3   | 9    | 23  | 34   | 46   | 52   | 48   | 39   | 29   | 6    | 8             |   | -3  |
| 56            |      | 3    | 8    | 13   | 22  | 30   | 44   | 50   | 47   | 33   | 29   | 13   | 12            |   | 3   |
| 57            |      | -12  | 11   | 15   | 22  | 29   | 44   | 48   | 48   | 29   | 27   | 18   | 9             |   | -12 |
| 58            |      | 5    | -7   | 18   | 20  | 34   | 35   | 51   | 42   | 39   | 29   | 1    | -5            |   | -7  |
| 59            |      | -4   | -4   | 11   | 22  | 32   | 42   | 48   | 47   | 30   | 27   | 8    | 9             |   | -4  |
| 60            |      | 13   | 9    | 2    | 21  | 34   | 44   | 46   | 49   | 39   | 27   | 19   | -5            |   | -5  |
| 61            |      | -13  | -11  | 11   | 20  | 29   | 41   | 46   | 47   | 34   | 32   | 23   | -5            |   | -11 |
| 62            |      | -9   | -4   | 2    | 18  | 34   | 44   | 46   | 46   | 36   | 25   | 19   | -5            |   | -9  |
| 63            |      | -18  | -11  | 11   | 26  | 25   | 40   | 44   | 44   | 35   | 29   | 20   | -5            |   | -18 |
| 64            |      | -6   | 6    | 10   | 14  | 35   | 37   | 48   | 45   | 35   | 26   | 11   | 8             |   | -6  |
| 66            |      | -7   | 3    | 6    | 27  | 24   | 33   | 47   | 48   | 35   | 27   | 16   | 1             |   | -7  |
| 67            |      | 1    | -5   | 1    | 19  | 30   | 40   | 48   | 42   | 34   | 22   | 15   | 7             |   | -5  |
| 68            |      | -9   | -9   | 9    | 19  | 26   | 38   | 42   | 46   | 39   | 28   | 25   | 5             |   | -9  |
| 69            |      | 0    | 4    | 8    | 22  | 30   | 40   | 44   | 43   | 35   | 20   | 15   | 4             |   | 0   |
| 70            |      | -7   | -6   | 9    | 22  | 24   | 40   | 46   | 48   | 35   | 30   | 13   | 10            |   | -7  |
| 71            |      | -6   | -8   | 12   | 20  | 30   | 44   | 44   | 42   | 36   | 35   | 4    | 12            |   | -6  |
| 72            |      | -11  | -7   | 4    | 15  | 33   | 30   | 44   | 44   | 37   | 22   | 22   | 11            |   | -11 |
| 73            |      | 5    | -3   | 19   | 23  | 32   | 46   | 46   | 43   | 33   | 35   | 24   | 12            |   | -3  |
| 74            |      | 2    | 5    | 3    | 18  | 31   | 46   | 45   | 48   | 34   | 28   | 16   | 14            |   | 2   |
| 75            |      | 6    | -8   | 10   | 19  | 37   | 44   | 49   | 45   | 39   | 21   | 22   | 6             |   | -8  |
| 76            |      | -6   | -6   | 15   | 20  | 30   | 48   | 51   | 41   | 35   | 24   | 1    | -6            |   | -6  |
| 77            |      | -15  | -9   | 15   | 17  | 31   | 36   | 47   | 44   | 43   | 30   | 12   | -2            |   | -15 |
| 78            |      | 2    | -9   | -1   | 23  | 25   | 37   | 44   | 52   | 35   | 26   | 20   | 12            |   | -9  |
| 79            |      | -6   | -14  | 8    | 22  | 30   | 37   | 43   | 42   | 37   | 22   | 21   | 9             |   | -14 |
| MEAN          |      |      |      |      |     |      |      |      |      |      |      |      |               |   |     |
| S. D.         |      |      |      |      |     |      |      |      |      |      |      |      |               |   |     |
| TOTAL OBS     |      |      |      |      |     |      |      |      |      |      |      |      |               |   |     |

NOTES \* (BASED ON LESS THAN FULL MONTHS)

USAF ETAC FORM 0-88-3 (OL A)  
JUL 64 # (AT LEAST ONE DAY LESS THAN 24 OBS)

4 (AT LEAST ONE DAY LESS THAN 24 OBS)

## PSYCHROMETRIC SUMMARY

73-81

YEARS



MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|-----|-----|----------------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|--|--|--|--|--|--|--|--|--|-------|--|-------|--|
|              | 0                                   | 1-2 | 3-4 | 5-6            | 7-8      | 9-10                               | 11-12  | 13-14  | 15-16  | 17-18  | 19-20  | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B.-W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 49       |                                     |     |     | .2             |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 2         | 2        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 55       |                                     |     | .4  |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 3         | 3        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 53       |                                     |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      |           |          |          | 3         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 51       |                                     |     | .1  |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 1         | 1        | 2        | 1         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 49       | .1                                  | .1  | .4  | .1             | .1       |                                    |        |        |        |        |        |       |       |       |       |       |      | 7         | 7        | 1        | 3         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 47       |                                     | .2  |     |                | .2       |                                    |        |        |        |        |        |       |       |       |       |       |      | 4         | 4        | 4        | 3         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 45       | .1                                  | .1  |     | .6             | .6       |                                    |        |        |        |        |        |       |       |       |       |       |      | 12        | 12       | 4        | 2         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 43       |                                     | .4  | .1  | .1             |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 5         | 5        | 4        | 4         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 41       | .4                                  | .7  |     | .2             |          | .1                                 |        |        |        |        |        |       |       |       |       |       |      | 12        | 12       | 9        | 9         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 39       | .1                                  | 1.1 | .2  | .6             |          | .2                                 |        |        |        |        |        |       |       |       |       |       |      | 19        | 19       | 17       | 4         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 3 / 37       | .2                                  | 1.3 | .4  | .4             |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 19        | 19       | 16       | 9         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 35       | .1                                  | 3.5 | 1.1 | .4             |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 41        | 41       | 18       | 10        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 3 / 33       |                                     | 2.9 | 1.0 | 1.0            |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 40        | 40       | 35       | 14        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 31       |                                     | 3.8 | 1.5 | .1             |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 44        | 44       | 41       | 30        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 29       |                                     | 4.7 | 2.2 |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 57        | 57       | 44       | 32        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 27       | .5                                  | 5.7 | .7  | .2             |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 59        | 59       | 70       | 30        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 25       |                                     | 6.2 | .7  |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 57        | 57       | 58       | 49        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 23       | .1                                  | 2.6 | .6  |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 27        | 27       | 58       | 31        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 21       | .5                                  | 2.7 | .7  |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 32        | 32       | 41       | 62        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 19       | .2                                  | 4.9 | 1.1 |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 51        | 51       | 32       | 69        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 17       | 1.2                                 | 4.7 | .1  |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 44        | 44       | 49       | 29        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 15       | .1                                  | 4.7 |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 40        | 40       | 40       | 49        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 13       | .4                                  | 4.0 | .1  |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 37        | 37       | 38       | 28        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 11       | 1.7                                 | 4.7 |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 53        | 53       | 52       | 54        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 9        | 1.6                                 | 4.5 |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 50        | 50       | 60       | 45        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 7        | .4                                  | 2.2 |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 21        | 21       | 35       | 42        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 5        | .7                                  | .2  |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 8         | 8        | 14       | 42        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 3        | .5                                  | 1.5 |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 16        | 16       | 7        | 45        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 1        | 1.8                                 | 1.7 |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 29        | 29       | 31       | 35        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / -1       | 1.3                                 | .2  |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 13        | 13       | 18       | 18        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| - / -3       | .5                                  | .2  |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 6         | 6        | 8        | 18        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| - / -5       | .7                                  |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 6         | 6        | 6        | 17        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| - / -7       | .1                                  |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 1         | 1        | 1        | 17        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| - / -9       |                                     |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      |           |          |          | 4         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| Element (X)  | Σ X'                                | Σ X | X   | e <sub>s</sub> | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| Rel. Hum.    |                                     |     |     |                |          | ≤ 0 F                              | ≤ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F | Total |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| Dry Bulb     |                                     |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| Wet Bulb     |                                     |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| Dew Point    |                                     |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |

USAFETAC FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

\_\_\_\_\_  
YEARS

**JAN**  
**MONTH**

PAGE 7 0000-0200  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|-------|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|--|--|--|--|--|-------|--|-------|--|
|              | 0                                   | 1-2   | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | > 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |       |  |       |  |
| 11           | .1                                  |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 1         | 1        | 1        | 5         |  |  |  |  |  |  |       |  |       |  |
| 13           | .7                                  |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 6         | 6        | 6        | 1         |  |  |  |  |  |  |       |  |       |  |
| 15           |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 4         |  |  |  |  |  |  |       |  |       |  |
| 17           |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 2         |  |  |  |  |  |  |       |  |       |  |
| 23           |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 6         |  |  |  |  |  |  |       |  |       |  |
| TOTAL        | 14.369                              | 011.3 | 4.1 | 1.2 | .4  |      |       |       |       |       |       |       |       |       |       |       |      |           | 823      |          | 823       |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           | 823      |          | 823       |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |       |  |       |  |

AD-A116 509 AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
YOUNGSTOWN MAP, OHIO. REVISED UNIFORM SUMMARY OF SURFACE WEATHE--ETC(1)  
MAY 82  
UNCLASSIFIED USAFETAC/DS-82/034 SBI-AD-E850 193 NL

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--ETC F/G 4/2  
YOUNGSTOWN MAP, OHIO. REVISED UNIFORM SUMMARY OF SURFACE WEATHE--ETC(11)  
MAY 82

USAFETAC/DS-82/034

**SBI-AD-E850 193**

NL

49. 5

$$= 64 + 64 = 128$$

■



## PSYCHROMETRIC SUMMARY

73-81

YEARS

JAN  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      |          |          |           | TOTAL<br>D.B./W.B. | TOTAL |  |  |  |  |
|--------------|-------------------------------------|-----|-----|-----|----------|------------------------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|----------|----------|-----------|--------------------|-------|--|--|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8      | 9-10                               | 11-12  | 13-14  | 15-16  | 17-18  | 19-20  | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | Dry Bulb | Wet Bulb | Dew Point |                    |       |  |  |  |  |
| 57           |                                     |     | .1  | .2  |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 3        | 3        |           |                    |       |  |  |  |  |
| 55           |                                     |     |     | .1  | .1       |                                    |        |        |        |        |        |       |       |       |       |       |      | 2        | 2        |           |                    |       |  |  |  |  |
| 53           |                                     |     |     |     | .1       |                                    |        |        |        |        |        |       |       |       |       |       |      | 1        | 1        | 3         |                    |       |  |  |  |  |
| 51           |                                     | .1  | .4  |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 4        | 4        |           |                    |       |  |  |  |  |
| 49           |                                     | .6  |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 5        | 5        | 3         |                    |       |  |  |  |  |
| 47           |                                     | .2  |     | .1  | .6       |                                    |        |        |        |        |        |       |       |       |       |       |      | 8        | 9        | 5         |                    |       |  |  |  |  |
| 45           |                                     | .2  |     | .1  | .5       |                                    |        |        |        |        |        |       |       |       |       |       |      | 7        | 7        | 7         |                    |       |  |  |  |  |
| 43           |                                     | .9  | .1  | .2  |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 10       | 10       | 2         |                    |       |  |  |  |  |
| 41           | .2                                  | .5  | .5  | .1  |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 11       | 11       | 5         |                    |       |  |  |  |  |
| 39           | .1                                  | .9  | .5  | .1  |          |                                    | .1     |        |        |        |        |       |       |       |       |       |      | 14       | 14       | 10        |                    |       |  |  |  |  |
| 37           | .4                                  | 1.1 | .2  | .4  |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 17       | 17       | 10        |                    |       |  |  |  |  |
| 35           |                                     | 2.5 | .9  | .2  |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 29       | 29       | 5         |                    |       |  |  |  |  |
| 33           | .1                                  | 3.9 | .9  | .2  |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 42       | 42       | 11        |                    |       |  |  |  |  |
| 31           |                                     | 2.5 | 3.0 | .4  |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 47       | 47       | 37        |                    |       |  |  |  |  |
| 29           | .5                                  | 5.7 | 1.2 |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 60       | 60       | 30        |                    |       |  |  |  |  |
| 27           | .5                                  | 4.9 | 1.0 | .2  |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 54       | 54       | 26        |                    |       |  |  |  |  |
| 25           |                                     | 5.7 | .1  |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 47       | 47       | 43        |                    |       |  |  |  |  |
| 23           |                                     | 3.4 | .5  |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 32       | 32       | 49        |                    |       |  |  |  |  |
| 21           | .9                                  | 3.3 | 1.1 |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 43       | 43       | 46        |                    |       |  |  |  |  |
| 19           | .2                                  | 5.2 | 1.2 |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 54       | 54       | 63        |                    |       |  |  |  |  |
| 17           | .7                                  | 3.6 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 35       | 35       | 38        |                    |       |  |  |  |  |
| 15           | .5                                  | 3.4 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 32       | 32       | 39        |                    |       |  |  |  |  |
| 13           | .5                                  | 4.1 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 37       | 37       | 49        |                    |       |  |  |  |  |
| 11           | 1.4                                 | 5.0 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 52       | 52       | 34        |                    |       |  |  |  |  |
| 9            | 1.0                                 | 3.2 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 34       | 34       | 35        |                    |       |  |  |  |  |
| 7            | 1.0                                 | 2.5 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 28       | 28       | 44        |                    |       |  |  |  |  |
| 5            | 1.1                                 | 1.4 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 20       | 20       | 33        |                    |       |  |  |  |  |
| 3            | 1.2                                 | 1.8 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 25       | 25       | 41        |                    |       |  |  |  |  |
| 1            | 1.5                                 | .7  |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 18       | 18       | 50        |                    |       |  |  |  |  |
| -1           | 1.1                                 | .1  |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 10       | 10       | 20        |                    |       |  |  |  |  |
| -3           | 1.4                                 | .4  |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 14       | 14       | 24        |                    |       |  |  |  |  |
| -5           | .9                                  |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 7        | 7        | 10        |                    |       |  |  |  |  |
| -7           | .2                                  |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 2        | 2        | 14        |                    |       |  |  |  |  |
| -9           | .1                                  |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 1        | 1        | 7         |                    |       |  |  |  |  |
| Element (X)  | Σ X²                                | Σ X | X̄  | σ²  | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        |       |       |       |       |       |      |          |          |           |                    |       |  |  |  |  |
| Rel. Hum.    |                                     |     |     |     |          | ≤ 6 F                              | ≤ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F | Total |       |       |       |       |      |          |          |           |                    |       |  |  |  |  |
| Dry Bulb     |                                     |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      |          |          |           |                    |       |  |  |  |  |
| Wet Bulb     |                                     |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      |          |          |           |                    |       |  |  |  |  |
| Dew Point    |                                     |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      |          |          |           |                    |       |  |  |  |  |

## PSYCHROMETRIC SUMMARY

73-81

YEARS

**JAN**  
**MONTH**

PAGE 2 0300-0500  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |    |  |  |  |  |  |  |  | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|------|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----------|----------|-----------|----|--|--|--|--|--|--|--|--------------------|-------|--|--|
|              | 0                                   | 1-2  | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | = 31 | Dry Bulb | Wet Bulb | Dew Point |    |  |  |  |  |  |  |  |                    |       |  |  |
| -1/-11       | .1                                  |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 1        | 1        | 1         | 3  |  |  |  |  |  |  |  |                    |       |  |  |
| -1/-13       | .5                                  |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 4        | 4        | 4         | 6  |  |  |  |  |  |  |  |                    |       |  |  |
| -1/-15       | .2                                  |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 2        | 2        | 2         | 6  |  |  |  |  |  |  |  |                    |       |  |  |
| -1/-17       |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           | 1  |  |  |  |  |  |  |  |                    |       |  |  |
| -2/-23       |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           | 2  |  |  |  |  |  |  |  |                    |       |  |  |
| -2/-25       |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           | 4  |  |  |  |  |  |  |  |                    |       |  |  |
| TOTAL        | 16.467                              | 9.11 | .7  | 2.6 | 1.4 | .1   |       |       |       |       |       |       |       |       |       |       |      | 812      | 812      | 812       | 93 |  |  |  |  |  |  |  |                    |       |  |  |

| Element (X) | Σ X'    | Σ X   | Σ          | Σ <sub>2</sub> | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        | Total |
|-------------|---------|-------|------------|----------------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|
|             |         |       |            |                |          | ≤ 6 F                              | ≤ 32 F | ≤ 67 F | ≤ 73 F | ≤ 80 F | ≤ 93 F |       |
| Rel. Hum.   | 4894039 | 62503 | 77.010.112 |                | 812      |                                    |        |        |        |        |        |       |
| Dry Bulb    | 507753  | 17437 | 21.512.821 |                | 812      | 4.7                                | 75.5   |        |        |        |        | 93    |
| Wet Bulb    | 441686  | 16210 | 20.012.067 |                | 812      | 4.9                                | 80.6   |        |        |        |        | 93    |
| Dew Point   | 325344  | 12342 | 15.213.033 |                | 812      | 11.1                               | 86.4   |        |        |        |        | 93    |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
A1- WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

12-257 YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81

YEARS

JAN  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        |          |          |           |        |  |        |  |  |  |  | TOTAL<br>D.B./W.B. | TOTAL |  |    |    |    |    |  |  |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|-------|----------|-------|------------------------------------|-------|--------|-------|--------|----------|----------|-----------|--------|--|--------|--|--|--|--|--------------------|-------|--|----|----|----|----|--|--|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20    | 21-22 | 23-24                              | 25-26 | 27-28  | 29-30 | ≥ 31   | Dry Bulb | Wet Bulb | Dew Point |        |  |        |  |  |  |  |                    |       |  |    |    |    |    |  |  |  |  |
| 5 / 55       |                                     |     | .2  |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 2        |          |           |        |  |        |  |  |  |  |                    |       |  | 2  | 2  |    |    |  |  |  |  |
| 4 / 53       |                                     | .2  |     |     | .1  |      |       |       |       |       |          |       |                                    |       |        |       |        | 3        |          |           |        |  |        |  |  |  |  |                    |       |  | 3  | 3  | 1  |    |  |  |  |  |
| 3 / 51       |                                     | .5  | .2  | .1  | .1  |      |       |       |       |       |          |       |                                    |       |        |       |        | 8        |          |           |        |  |        |  |  |  |  |                    |       |  | 8  | 8  | 3  | 2  |  |  |  |  |
| 5 / 49       |                                     | .1  | .1  |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 2        |          |           |        |  |        |  |  |  |  |                    |       |  | 2  | 2  | 6  | 2  |  |  |  |  |
| 6 / 47       |                                     | .1  |     | .1  |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 2        |          |           |        |  |        |  |  |  |  |                    |       |  | 2  | 2  | 1  | 5  |  |  |  |  |
| 4 / 45       |                                     | .6  | .2  | .4  | .4  |      |       |       |       |       |          |       |                                    |       |        |       |        | 13       |          |           |        |  |        |  |  |  |  |                    |       |  | 13 | 13 | 6  | 1  |  |  |  |  |
| 4 / 43       |                                     | .6  | .1  |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 6        |          |           |        |  |        |  |  |  |  |                    |       |  | 6  | 6  | 7  | 7  |  |  |  |  |
| 4 / 41       |                                     | .2  | .4  | .2  |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 7        |          |           |        |  |        |  |  |  |  |                    |       |  | 7  | 7  | 7  | 4  |  |  |  |  |
| 4 / 39       | .6                                  | .9  | .5  |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 16       |          |           |        |  |        |  |  |  |  |                    |       |  | 16 | 16 | 10 | 9  |  |  |  |  |
| 3 / 37       | .1                                  | 1.3 | .4  |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 15       |          |           |        |  |        |  |  |  |  |                    |       |  | 15 | 15 | 14 | 10 |  |  |  |  |
| 3 / 35       | .2                                  | 1.9 | .6  |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 23       |          |           |        |  |        |  |  |  |  |                    |       |  | 23 | 23 | 19 | 8  |  |  |  |  |
| 3 / 33       | .1                                  | 5.2 | .1  | .1  |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 46       |          |           |        |  |        |  |  |  |  |                    |       |  | 46 | 46 | 26 | 18 |  |  |  |  |
| 2 / 31       |                                     | 3.3 | 2.2 |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 45       |          |           |        |  |        |  |  |  |  |                    |       |  | 45 | 45 | 45 | 26 |  |  |  |  |
| 2 / 29       | .1                                  | 6.0 | 1.1 | .4  |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 62       |          |           |        |  |        |  |  |  |  |                    |       |  | 62 | 62 | 39 | 39 |  |  |  |  |
| 2 / 27       | .6                                  | 4.3 | .6  | .4  |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 48       |          |           |        |  |        |  |  |  |  |                    |       |  | 48 | 48 | 67 | 25 |  |  |  |  |
| 2 / 25       | .1                                  | 5.4 | .1  |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 46       |          |           |        |  |        |  |  |  |  |                    |       |  | 46 | 46 | 51 | 35 |  |  |  |  |
| 2 / 23       |                                     | 3.7 |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 30       |          |           |        |  |        |  |  |  |  |                    |       |  | 30 | 30 | 56 | 34 |  |  |  |  |
| 2 / 21       | .6                                  | 3.7 | .7  |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 41       |          |           |        |  |        |  |  |  |  |                    |       |  | 41 | 41 | 38 | 56 |  |  |  |  |
| 2 / 19       | 1.1                                 | 4.9 | .4  |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 52       |          |           |        |  |        |  |  |  |  |                    |       |  | 52 | 52 | 40 | 65 |  |  |  |  |
| 1 / 17       | .2                                  | 4.6 | .1  |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 41       |          |           |        |  |        |  |  |  |  |                    |       |  | 41 | 42 | 45 | 43 |  |  |  |  |
| 1 / 15       | 1.3                                 | 3.8 |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 42       |          |           |        |  |        |  |  |  |  |                    |       |  | 42 | 42 | 53 | 35 |  |  |  |  |
| 1 / 13       | .9                                  | 4.4 |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 43       |          |           |        |  |        |  |  |  |  |                    |       |  | 43 | 43 | 32 | 40 |  |  |  |  |
| 1 / 11       | 1.8                                 | 4.0 |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 48       |          |           |        |  |        |  |  |  |  |                    |       |  | 48 | 48 | 52 | 40 |  |  |  |  |
| 1 / 9        | 1.2                                 | 2.6 |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 31       |          |           |        |  |        |  |  |  |  |                    |       |  | 31 | 31 | 49 | 52 |  |  |  |  |
| 1 / 7        | 1.1                                 | 2.7 |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 31       |          |           |        |  |        |  |  |  |  |                    |       |  | 31 | 31 | 21 | 46 |  |  |  |  |
| 1 / 5        | 1.7                                 | .9  |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 21       |          |           |        |  |        |  |  |  |  |                    |       |  | 21 | 21 | 34 | 37 |  |  |  |  |
| 1 / 3        | 2.4                                 | 1.6 |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 33       |          |           |        |  |        |  |  |  |  |                    |       |  | 33 | 33 | 29 | 35 |  |  |  |  |
| 1 / 1        | 1.8                                 | 1.0 |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 23       |          |           |        |  |        |  |  |  |  |                    |       |  | 23 | 23 | 26 | 36 |  |  |  |  |
| 1 / -1       | 1.1                                 | .2  |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 11       |          |           |        |  |        |  |  |  |  |                    |       |  | 11 | 12 | 12 | 36 |  |  |  |  |
| 1 / -3       | .6                                  | .6  |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 10       |          |           |        |  |        |  |  |  |  |                    |       |  | 10 | 10 | 9  | 19 |  |  |  |  |
| 1 / -5       | 1.5                                 |     |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 12       |          |           |        |  |        |  |  |  |  |                    |       |  | 12 | 12 | 15 | 11 |  |  |  |  |
| 1 / -7       | .1                                  |     |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 1        |          |           |        |  |        |  |  |  |  |                    |       |  | 1  | 1  | 1  | 15 |  |  |  |  |
| 1 / -9       | .1                                  |     |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 1        |          |           |        |  |        |  |  |  |  |                    |       |  | 1  | 1  | 1  | 9  |  |  |  |  |
| 1 / -11      | .4                                  |     |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        | 3        |          |           |        |  |        |  |  |  |  |                    |       |  | 3  | 3  | 3  | 3  |  |  |  |  |
| Element (X)  | Σ X'                                |     | Σ X |     | X   |      | X     |       | X     |       | No. Obs. |       | Mean No. of Hours with Temperature |       |        |       |        |          |          |           |        |  |        |  |  |  |  |                    |       |  |    |    |    |    |  |  |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |       |       |          |       | ≤ 0 F                              |       | ≤ 32 F |       | ≤ 67 F |          | ≤ 73 F   |           | ≤ 80 F |  | ≤ 93 F |  |  |  |  |                    |       |  |    |    |    |    |  |  |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        |          |          |           |        |  |        |  |  |  |  |                    |       |  |    |    |    |    |  |  |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        |          |          |           |        |  |        |  |  |  |  |                    |       |  |    |    |    |    |  |  |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |       |       |          |       |                                    |       |        |       |        |          |          |           |        |  |        |  |  |  |  |                    |       |  |    |    |    |    |  |  |  |  |

FORM 0-26-5 (OL A) REVERSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JAN 64  
USAFETAC

## PSYCHROMETRIC SUMMARY

JAN  
MONTH

PAGE 2 0600-0800  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  | TOTAL | TOTAL |  |  |  |
|--------------|-------------------------------------|-------|-------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|-----------|----------|----------|-----------|--|--|--|--|--|--|--|-------|-------|--|--|--|
|              | 0                                   | 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |  |       |       |  |  |  |
| -1 / -13     | .2                                  |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      | 2         | 2        | 2        | 6         |  |  |  |  |  |  |  |       |       |  |  |  |
| -1 / -15     | .1                                  |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      | 1         | 1        | 1        | 3         |  |  |  |  |  |  |  |       |       |  |  |  |
| -1 / -17     |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          | 2         |  |  |  |  |  |  |  |       |       |  |  |  |
| -1 / -19     |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          | 1         |  |  |  |  |  |  |  |       |       |  |  |  |
| -2 / -23     |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          | 5         |  |  |  |  |  |  |  |       |       |  |  |  |
| -2 / -25     |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          | 1         |  |  |  |  |  |  |  |       |       |  |  |  |
| TOTAL        | 20.369.2                            | 8.2   | 1.7   | .6    |       |        |         |         |         |         |         |         |         |         |         |         |      | 821       | 823      | 821      | 821       |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |
|              |                                     |       |       |       |       |        |         | </      |         |         |         |         |         |         |         |         |      |           |          |          |           |  |  |  |  |  |  |  |       |       |  |  |  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

728257 YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81

YEARS

JAN  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           |          |          |           |       |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|----------------|-------|-------|----------|-------|-------|------------------------------------|--------|-----------|----------|----------|-----------|-------|--|--|--|--|--|--|--|--|--|-------|--|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18          | 19-20 | 21-22 | 23-24    | 25-26 | 27-28 | 29-30                              | 31     | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |       |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 57 / 57      |                                     | .1  |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 1        | 1        |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 55 / 55      |                                     | .2  |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 2        | 2        | 1         |       |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 54 / 53      |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           |          |          | 2         | 3     |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 52 / 51      |                                     | .1  |     |     | .2  |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 3        | 3        |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 50 / 49      |                                     | .2  |     | .5  | .1  |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 7        | 7        | 1         | 1     |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 48 / 47      |                                     | .5  | .2  | .1  |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 7        | 7        | 5         | 4     |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 46 / 45      |                                     | 1.5 | .1  | .2  |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 15       | 15       | 7         | 4     |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 44 / 43      |                                     | .6  |     | .5  |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 9        | 9        | 18        | 8     |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 42 / 41      |                                     | 1.3 |     | .1  | .1  |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 13       | 13       | 8         | 4     |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 40 / 39      |                                     | 1.2 | .5  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 14       | 14       | 11        | 13    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 38 / 37      |                                     | 1.8 | .4  | .1  |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 19       | 19       | 17        | 6     |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 36 / 35      | .4                                  | 2.1 | .6  | .2  |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 27       | 27       | 21        | 19    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 34 / 33      |                                     | 4.2 | .6  | .1  |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 40       | 40       | 29        | 17    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 32 / 31      |                                     | 5.3 | 2.8 | .2  |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 68       | 68       | 42        | 38    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 30 / 29      | .2                                  | 4.4 | 1.1 | .6  |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 52       | 52       | 60        | 24    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 28 / 27      | .4                                  | 4.5 | .5  | .2  |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 46       | 46       | 48        | 37    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 26 / 25      | .2                                  | 4.8 | .4  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 44       | 44       | 51        | 50    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 24 / 23      |                                     | 4.3 | .5  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 39       | 39       | 59        | 27    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 22 / 21      | 1.1                                 | 2.7 | .5  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 35       | 35       | 44        | 45    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 20 / 19      | 1.0                                 | 5.8 | .6  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 60       | 60       | 38        | 61    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 18 / 17      | .5                                  | 4.9 | .2  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 46       | 46       | 60        | 38    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 16 / 15      | 1.3                                 | 4.9 |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 51       | 51       | 52        | 43    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 14 / 13      | .4                                  | 5.2 |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 45       | 45       | 39        | 43    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 12 / 11      | 1.2                                 | 4.5 |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 47       | 47       | 51        | 59    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 10 / 9       | .4                                  | 3.3 |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 30       | 30       | 42        | 46    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 8 / 7        | .9                                  | 1.2 |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 17       | 17       | 24        | 46    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 6 / 5        | .5                                  | 1.8 |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 19       | 19       | 22        | 30    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 4 / 3        | 1.1                                 | 1.3 |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 20       | 20       | 19        | 38    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 2 / 1        | 1.0                                 | .9  |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 15       | 15       | 17        | 35    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| 0 / -1       | .7                                  | .1  |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 7        | 7        | 9         | 20    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| -2 / -3      | .6                                  | .2  |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 7        | 7        | 8         | 14    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| -4 / -5      | .4                                  |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 3        | 3        | 3         | 10    |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| -6 / -7      | .1                                  | .1  |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 2        | 2        | 2         | 8     |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| -8 / -9      | .1                                  |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           | 1        | 1        | 1         | 7     |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| Element (X)  | Σ X <sup>2</sup>                    |     |     | Σ X |     |      | Σ     |       |       | Σ <sub>n</sub> |       |       | No. Obs. |       |       | Mean No. of Hours with Temperature |        |           |          |          |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       | ± 0 F                              | ± 32 F | ± 67 F    | ± 73 F   | ± 80 F   | ± 93 F    | Total |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           |          |          |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           |          |          |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |        |           |          |          |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |  |

FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

**JAN**  
**MONTH**

PAGE 2 ~~0900-1100~~  
HOURS 11:50-7:00

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          | TOTAL     | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----------|----------|----------|-----------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |       |  |  |
| -1 / -11     | .1                                  |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     | 1         | 1        | 1        | 6         |       |  |  |
| -1 / -13     | .1                                  |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     | 1         | 1        | 1        | 2         |       |  |  |
| -1 / -15     | .2                                  |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     | 2         | 2        | 2        | 3         |       |  |  |
| -1 / -19     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          | 1         |       |  |  |
| -1 / -21     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          | 2         |       |  |  |
| -2 / -23     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          | 1         |       |  |  |
| -2 / -25     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          | 2         |       |  |  |
| TOTAL        | 13.774                              | 4   | 9.1 | 3.1 | .5  |      |       |       |       |       |       |       |       |       |       |       |     | 815       | 815      | 815      |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     | 815       |          | 815      |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |       |  |  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

12-25-81 YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81

YEARS

JAN  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          |          |           | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|----------------|-------|----------|-------|------------------------------------|--------|--------|--------|--------|--------|------|----------|----------|-----------|--------------------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12          | 13-14 | 15-16    | 17-18 | 19-20                              | 21-22  | 23-24  | 25-26  | 27-28  | 29-30  | ≥ 31 | Dry Bulb | Wet Bulb | Dew Point |                    |       |  |  |
| 59           |                                     | .1  | .1  | .1  |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 3        | 3         |                    |       |  |  |
| 57           |                                     |     |     |     |     | .2   |                |       |          |       |                                    |        |        |        |        |        |      |          | 2        | 2         | 1                  |       |  |  |
| 55           |                                     |     | .1  |     | .1  |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 2        | 2         | 1                  | 1     |  |  |
| 53           |                                     |     | .1  | .1  | .2  |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 4        | 4         | 1                  | 1     |  |  |
| 51           |                                     | .2  | .2  |     | .1  |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 5        | 5         | 1                  |       |  |  |
| 49           |                                     | .2  | .1  | .5  | .1  | .1   |                |       |          |       |                                    |        |        |        |        |        |      |          | 9        | 9         | 5                  | 1     |  |  |
| 47           | .1                                  | .5  | .2  | .1  | .4  |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 11       | 11        | 9                  | 6     |  |  |
| 45           | .1                                  | .9  | .1  | .4  | .1  |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 13       | 13        | 10                 | 9     |  |  |
| 43           |                                     | .6  | .4  | .1  | .2  | .1   |                |       |          |       |                                    |        |        |        |        |        |      |          | 12       | 13        | 12                 | 5     |  |  |
| 41           | .1                                  | 1.1 | .9  | .2  |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 19       | 19        | 11                 | 6     |  |  |
| 39           |                                     | 1.5 | .4  | .5  | .1  |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 20       | 20        | 20                 | 11    |  |  |
| 37           | .1                                  | 1.7 | .7  | .1  | .2  |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 24       | 24        | 21                 | 12    |  |  |
| 35           | .1                                  | 2.4 | 1.3 | .6  | .2  |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 39       | 39        | 24                 | 23    |  |  |
| 33           |                                     | 3.7 | 2.2 | .5  | .1  |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 48       | 48        | 32                 | 17    |  |  |
| 31           |                                     | 4.8 | 3.3 | .2  | .1  |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 69       | 69        | 48                 | 37    |  |  |
| 29           | .1                                  | 3.3 | 2.1 | 1.1 |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 54       | 54        | 65                 | 33    |  |  |
| 27           | .4                                  | 3.9 | 1.7 | .1  |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 50       | 50        | 56                 | 30    |  |  |
| 25           |                                     | 4.6 | 1.5 |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 50       | 50        | 57                 | 48    |  |  |
| 23           |                                     | 2.4 | 1.9 |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 36       | 36        | 56                 | 29    |  |  |
| 21           | .6                                  | 4.5 | 1.7 |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 56       | 56        | 49                 | 48    |  |  |
| 19           | .2                                  | 6.7 | 1.7 |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 59       | 59        | 51                 | 54    |  |  |
| 17           | .1                                  | 5.9 | .7  |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 48       | 48        | 64                 | 57    |  |  |
| 15           |                                     | 5.0 | .7  |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 47       | 47        | 51                 | 36    |  |  |
| 13           |                                     | 5.4 | .1  |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 45       | 45        | 40                 | 34    |  |  |
| 11           | .2                                  | 4.0 |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 35       | 35        | 51                 | 70    |  |  |
| 9            |                                     | 1.9 |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 16       | 16        | 29                 | 47    |  |  |
| 7            | .1                                  | 1.2 |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 11       | 11        | 14                 | 43    |  |  |
| 5            | .2                                  | 1.2 |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 12       | 12        | 16                 | 41    |  |  |
| 3            | .2                                  | .7  |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 8        | 8         | 10                 | 32    |  |  |
| 1            | .2                                  |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 2        | 2         | 4                  | 34    |  |  |
| -1           | .1                                  | .5  |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 5        | 5         | 1                  | 12    |  |  |
| -3           | .1                                  |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 1        | 1         | 5                  | 9     |  |  |
| -5           | .1                                  | .2  |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          | 3        | 3         | 2                  | 11    |  |  |
| -7           |                                     |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          |          |           | 1                  | 4     |  |  |
| Element (X)  | Σ x'                                |     | Σ x |     | x̄  |      | σ <sub>x</sub> |       | No. Obs. |       | Mean No. of Hours with Temperature |        |        |        |        |        |      | Total    |          |           |                    |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |                |       |          |       | ≤ 0 F                              | ≤ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F |      |          |          |           |                    |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          |          |           |                    |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          |          |           |                    |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |      |          |          |           |                    |       |  |  |

## PSYCHROMETRIC SUMMARY

YEARS

**JAN**  
**MONTH**

~~1200-1400~~  
HOURS (L. S. T.)

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

72-25  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

YEARS

JAN  
MONTH

PAGE 1

1500-1700  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      |           |          |          | TOTAL     |  | TOTAL |  |
|--------------|-------------------------------------|-----|-----|----------------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|-------|--|
|              | 0                                   | 1-2 | 3-4 | 5-6            | 7-8      | 9-10                               | 11-12  | 13-14  | 15-16  | 17-18  | 19-20  | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |       |  |
| 59           |                                     |     |     | .1             |          | .1                                 |        |        |        |        |        |       |       |       |       |       |      | 2         |          | 2        |           |  |       |  |
| 57           |                                     |     |     | .2             |          | .1                                 |        |        |        |        |        |       |       |       |       |       |      | 3         |          | 3        |           |  |       |  |
| 55           |                                     |     | .1  |                | .2       | .2                                 |        |        |        |        |        |       |       |       |       |       |      | 5         |          | 5        |           |  |       |  |
| 53           |                                     |     |     | .1             | .2       |                                    |        |        |        |        |        |       |       |       |       |       |      | 3         |          | 3        | 1         |  |       |  |
| 51           |                                     | .4  |     | .1             | .4       |                                    |        |        |        |        |        |       |       |       |       |       |      | 7         |          | 7        | 6         |  |       |  |
| 49           |                                     | .4  | .1  |                | .1       |                                    |        |        |        |        |        |       |       |       |       |       |      | 5         |          | 5        | 4         |  |       |  |
| 47           |                                     | .1  | .5  | .2             | .6       |                                    |        |        |        |        |        |       |       |       |       |       |      | 12        |          | 12       | 5         |  |       |  |
| 45           |                                     | .5  | .1  | .6             | .5       |                                    |        |        |        |        |        |       |       |       |       |       |      | 14        |          | 14       | 5         |  |       |  |
| 43           |                                     | .5  | .2  | .7             | .2       | .2                                 |        |        |        |        |        |       |       |       |       |       |      | 16        |          | 16       | 1         |  |       |  |
| 41           |                                     | 1.1 | .2  | .1             | .1       | .2                                 |        |        |        |        |        |       |       |       |       |       |      | 15        |          | 15       | 7         |  |       |  |
| 39           | .1                                  | 1.0 | 1.2 | .1             | .1       |                                    |        |        |        |        |        |       |       |       |       |       |      | 21        |          | 21       | 14        |  |       |  |
| 37           | .1                                  | 2.2 | 1.2 | .4             | .5       |                                    |        |        |        |        |        |       |       |       |       |       |      | 36        |          | 36       | 13        |  |       |  |
| 35           | .1                                  | 2.8 | 2.7 | 1.0            | .1       |                                    |        |        |        |        |        |       |       |       |       |       |      | 49        |          | 49       | 17        |  |       |  |
| 33           | .1                                  | 2.1 | 2.7 | 1.0            | .1       |                                    |        |        |        |        |        |       |       |       |       |       |      | 49        |          | 49       | 20        |  |       |  |
| 31           | .1                                  | 2.8 | 2.8 | .2             | .1       |                                    |        |        |        |        |        |       |       |       |       |       |      | 50        |          | 50       | 32        |  |       |  |
| 29           |                                     | 4.0 | 2.9 | 1.2            |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 67        |          | 67       | 41        |  |       |  |
| 27           |                                     | 2.7 | 1.6 | .1             |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 36        |          | 36       | 32        |  |       |  |
| 25           |                                     | 4.5 | 3.7 | .1             |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 68        |          | 68       | 33        |  |       |  |
| 23           |                                     | 3.9 | 3.7 |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 62        |          | 62       | 29        |  |       |  |
| 21           | .1                                  | 1.8 | 1.7 |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 30        |          | 30       | 48        |  |       |  |
| 19           | .2                                  | 3.4 | 1.5 |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 42        |          | 42       | 67        |  |       |  |
| 17           |                                     | 3.8 | 1.7 |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 45        |          | 45       | 55        |  |       |  |
| 15           |                                     | 5.5 | 1.3 |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 56        |          | 57       | 36        |  |       |  |
| 13           | .1                                  | 4.0 | .2  |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 36        |          | 36       | 45        |  |       |  |
| 11           | .1                                  | 3.3 | .1  |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 29        |          | 29       | 51        |  |       |  |
| 9            |                                     | 2.1 | .2  |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 19        |          | 19       | 51        |  |       |  |
| 7            |                                     | 2.0 |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 16        |          | 16       | 35        |  |       |  |
| 5            |                                     | .9  |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 7         |          | 7        | 26        |  |       |  |
| 3            |                                     | .5  |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 4         |          | 4        | 49        |  |       |  |
| 1            |                                     | .4  |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 3         |          | 3        | 37        |  |       |  |
| -1           |                                     |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      |           |          |          | 1         |  |       |  |
| -3           | .4                                  |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 3         |          | 3        | 14        |  |       |  |
| -5           | .1                                  | .1  |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 2         |          | 2        | 7         |  |       |  |
| -7           | .4                                  |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 3         |          | 3        | 7         |  |       |  |
| Element (X)  | Σx'                                 | Σx  | Σ   | Σ <sub>a</sub> | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        | Total |       |       |       |       |      |           |          |          |           |  |       |  |
| Rel. Hum.    |                                     |     |     |                |          | ≤ 0 F                              | ≤ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F | Total |       |       |       |       |      |           |          |          |           |  |       |  |
| Dry Bulb     |                                     |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      |           |          |          |           |  |       |  |
| Wet Bulb     |                                     |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      |           |          |          |           |  |       |  |
| Dew Point    |                                     |     |     |                |          |                                    |        |        |        |        |        |       |       |       |       |       |      |           |          |          |           |  |       |  |

## PSYCHROMETRIC SUMMARY

YEARS

**LAN**  
**MONTH**

PAGE 2 ~~1500-1700~~  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

**JAN**  
**MONTH**

PAGE 1 1800-2000

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |           |          |          |           |       |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------------------------------------|--------|-----------|----------|----------|-----------|-------|--|--|--|--|--|--|--|--|--|-------|--|-------|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24    | 25-26 | 27-28 | 29-30                              | ≥ 31   | D.B. W.B. | Dry Bulb | Wet Bulb | Dew Point |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 55       |                                     |     |     | .1  |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 1         | 1        |          |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 53       |                                     |     |     | .1  |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 1         | 1        |          |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 51       |                                     |     | .1  | .1  |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 2         | 2        |          |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 49       |                                     | .1  | .2  |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 3         | 3        | 1        |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 47       |                                     | .4  | .1  | .7  | .1  |      |       |       |       |       |       |       |          |       |       |                                    |        | 11        | 11       | 4        | 1         |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 45       | .1                                  | .6  | .5  | .5  | .4  |      |       |       |       |       |       |       |          |       |       |                                    |        | 17        | 17       | 5        | 4         |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 43       | .1                                  | .4  | .1  | .2  | .4  |      |       |       |       |       |       |       |          |       |       |                                    |        | 13        | 10       | 11       | 7         |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 41       |                                     | .4  | .2  | .4  |     | .1   |       |       |       |       |       |       |          |       |       |                                    |        | 9         | 9        | 13       | 4         |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 39       | .1                                  | 1.5 | 1.7 | .7  | .1  | .1   |       |       |       |       |       |       |          |       |       |                                    |        | 29        | 29       | 13       | 7         |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 3 / 37       | .1                                  | 1.1 | 1.3 |     | .6  |      |       |       |       |       |       |       |          |       |       |                                    |        | 26        | 26       | 24       | 14        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 35       |                                     | 3.3 | 1.5 | .6  |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 44        | 44       | 19       | 11        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 3 / 33       |                                     | 2.1 | 2.3 | .1  | .1  |      |       |       |       |       |       |       |          |       |       |                                    |        | 38        | 38       | 51       | 19        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 31       | .2                                  | 3.4 | 3.3 | .7  |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 63        | 63       | 29       | 35        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 29       |                                     | 4.5 | 2.3 | .6  |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 61        | 61       | 59       | 29        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 27       | .1                                  | 4.2 | 1.1 | .1  |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 46        | 46       | 72       | 41        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 25       | .1                                  | 3.9 | 1.7 |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 47        | 47       | 54       | 44        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 23       |                                     | 4.5 | 1.3 |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 48        | 48       | 57       | 23        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 21       |                                     | 3.6 | .8  |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 37        | 37       | 47       | 50        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 19       | .1                                  | 4.7 | .5  |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 44        | 44       | 41       | 65        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 17       | .2                                  | 3.6 | .6  |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 37        | 37       | 46       | 38        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 15       |                                     | 6.4 | .7  |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 59        | 59       | 43       | 48        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 13       | .2                                  | 5.3 | .4  |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 49        | 49       | 54       | 57        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 11       | .5                                  | 4.4 | .2  |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 42        | 42       | 47       | 46        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 9        |                                     | 3.1 |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 26        | 26       | 44       | 45        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 7        |                                     | 2.3 |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 19        | 19       | 22       | 47        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 5        | .2                                  | 1.7 |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 16        | 16       | 21       | 29        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 3        | .6                                  | 1.8 |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 20        | 20       | 23       | 36        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 1        | .5                                  | .7  |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 10        | 10       | 12       | 44        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / -1       | .4                                  |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 3         | 3        | 6        | 18        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -1 / -3      |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |           |          |          | 22        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -1 / -5      | .2                                  |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 2         | 2        | 2        | 15        |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -1 / -7      | .5                                  |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 4         | 4        | 4        | 9         |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -1 / -9      | .2                                  |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 2         | 2        | 2        | 9         |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -1 / -11     |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |           |          |          | 1         |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| Element (X)  | Σ X <sup>2</sup>                    |     |     | Σ X |     |      | Σ     |       |       | Σ X   |       |       | No. Obs. |       |       | Mean No. of Hours with Temperature |        |           |          |          |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| Rel. Num.    |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       | ≤ 0 F                              | ≤ 32 F | ≥ 67 F    | ≥ 73 F   | ≥ 80 F   | ≥ 93 F    | Total |  |  |  |  |  |  |  |  |  |       |  |       |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |           |          |          |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |           |          |          |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |           |          |          |           |       |  |  |  |  |  |  |  |  |  |       |  |       |  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

12-25 YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81

YEARS

JAN  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |    |   |   |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |           | TOTAL    |          |           |   |
|--------------|-------------------------------------|----|---|---|----|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-----------|----------|----------|-----------|---|
|              | 0                                   | 1  | 2 | 3 | 4  | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | D.B. W.B. | Dry Bulb | Wet Bulb | Dew Point |   |
| 1 /-15       |                                     |    |   |   |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 5 |
| 2 /-17       |                                     |    |   |   |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 2 |
| 3 /-19       |                                     |    |   |   |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 1         |   |
| TAL          | 4                                   | 26 | 7 | 9 | 20 | 1 | 5 | 3 | 1 | 7 | 2  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 826       |   |
|              |                                     |    |   |   |    |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 826       |   |

| Element (X) | $\Sigma X^2$ | $\Sigma X$ | $\bar{X}$ | $\sigma^2$ | No. Obs. | Mean No. of Hours with Temperature |             |             |             |             | Total       |    |
|-------------|--------------|------------|-----------|------------|----------|------------------------------------|-------------|-------------|-------------|-------------|-------------|----|
|             |              |            |           |            |          | $\leq 0 F$                         | $\leq 32 F$ | $\leq 67 F$ | $\leq 73 F$ | $\leq 80 F$ | $\leq 93 F$ |    |
| Rel. Hum.   | 43           | 21.1       | 59335     | 71.8       | 11.538   | 826                                |             |             |             |             |             |    |
| Dry Bulb    | 580141       | 19689      | 23.8      | 11.590     | 826      | 1.2                                | 71.5        |             |             |             |             | 93 |
| Wet Bulb    | 486892       | 17954      | 21.7      | 10.8       | 3        | 826                                | 1.6         | 77.1        |             |             |             | 93 |
| Dew Point   | 327529       | 13037      | 15.8      | 12.149     | 826      | 9.2                                | 85.5        |             |             |             |             | 93 |



## PSYCHROMETRIC SUMMARY

YEARS

**JAN**  
**MONTM**

PAGE 2 2100-2300  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|------|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|-------|--|-------|--|
|              | 0                                   | 1-2  | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |       |  |       |  |
| -1 / -13     | .2                                  |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 2         | 2        | 2        | 3         |       |  |       |  |
| -1 / -15     |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 1         |       |  |       |  |
| -1 / -17     |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 2         |       |  |       |  |
| -1 / -19     |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 1         |       |  |       |  |
| -1 / -21     |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 2         |       |  |       |  |
| -2 / -23     |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 2         |       |  |       |  |
| TOTAL        | 13.167                              | 9.13 | 6   | 4.1 | .9  | .4   |       |       |       |       |       |       |       |       |       |       |      | 822       | 824      | 822      | 822       |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
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|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |

## PSYCHROMETRIC SUMMARY

73-81

YEARS

JAN  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      |          |          |           |     |        |  |        |  |        |  |       |  |  |  | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|----------------|-------|-------|----------|-------|-------|------------------------------------|------|----------|----------|-----------|-----|--------|--|--------|--|--------|--|-------|--|--|--|--------------------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18          | 19-20 | 21-22 | 23-24    | 25-26 | 27-28 | 29-30                              | ≥ 31 | Dry Bulb | Wet Bulb | Dew Point |     |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 59       |                                     | .0  | .0  | .1  |     | .0   |       |       |       |                |       |       |          |       |       |                                    |      | 7        | 7        |           |     |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 57       |                                     | .0  | .0  | .1  |     | .0   |       |       |       |                |       |       |          |       |       |                                    |      | 9        | 9        | 1         |     |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 5 / 55       |                                     | .0  | .1  | .0  | .1  | .0   |       |       |       |                |       |       |          |       |       |                                    |      | 18       | 18       | 2         | 1   |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 4 / 53       |                                     | .1  | .0  | .0  | .1  |      |       |       |       |                |       |       |          |       |       |                                    |      | 13       | 13       | 12        | 4   |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 2 / 51       |                                     | .2  | .1  | .0  | .1  |      |       |       |       |                |       |       |          |       |       |                                    |      | 31       | 31       | 13        | 5   |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 5 / 49       | .1                                  | .2  | .1  | .2  | .1  | .0   |       |       |       |                |       |       |          |       |       |                                    |      | 44       | 44       | 23        | 16  |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 47       | .0                                  | .3  | .1  | .2  | .2  |      |       |       |       |                |       |       |          |       |       |                                    |      | 60       | 60       | 42        | 30  |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 4 / 45       | .1                                  | .6  | .1  | .4  | .4  |      |       |       |       |                |       |       |          |       |       |                                    |      | 98       | 98       | 43        | 33  |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 4 / 43       | .0                                  | .6  | .2  | .3  | .2  | .0   |       |       |       |                |       |       |          |       |       |                                    |      | 83       | 84       | 72        | 37  |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 2 / 41       | .1                                  | .8  | .3  | .2  | .0  | .1   |       |       |       |                |       |       |          |       |       |                                    |      | 102      | 102      | 84        | 43  |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 4 / 39       | .2                                  | 1.1 | .6  | .3  | .0  | .1   |       |       |       |                |       |       |          |       |       |                                    |      | 154      | 154      | 120       | 75  |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 3 / 37       | .2                                  | 1.5 | .6  | .2  | .2  |      |       |       |       |                |       |       |          |       |       |                                    |      | 179      | 179      | 157       | 86  |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 35       | .1                                  | 2.6 | 1.2 | .4  | .0  |      |       |       |       |                |       |       |          |       |       |                                    |      | 289      | 289      | 165       | 110 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 3 / 33       | .1                                  | 3.2 | 1.4 | .4  | .0  |      |       |       |       |                |       |       |          |       |       |                                    |      | 333      | 333      | 278       | 135 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 2 / 31       | .1                                  | 3.6 | 2.7 | .3  | .0  |      |       |       |       |                |       |       |          |       |       |                                    |      | 445      | 445      | 327       | 254 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 29       | .2                                  | 4.7 | 1.9 | .5  |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 476      | 476      | 413       | 265 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 2 / 27       | .3                                  | 4.5 | 1.0 | .2  |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 393      | 393      | 515       | 253 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 25       | .1                                  | 5.0 | 1.1 | .0  |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 410      | 410      | 436       | 338 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 2 / 23       | .0                                  | 3.5 | 1.1 |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 304      | 304      | 479       | 253 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 2 / 21       | .5                                  | 3.2 | 1.0 |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 315      | 315      | 364       | 421 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 19       | .5                                  | 5.0 | .8  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 408      | 408      | 306       | 499 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 17       | .4                                  | 4.2 | .5  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 334      | 335      | 407       | 345 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 15       | .4                                  | 5.7 | .4  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 378      | 380      | 372       | 324 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 13       | .5                                  | 4.6 | .1  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 339      | 339      | 334       | 342 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 11       | 1.1                                 | 4.2 | .0  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 353      | 354      | 392       | 406 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 9        | .6                                  | 3.0 | .0  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 237      | 237      | 353       | 380 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 7        | .5                                  | 2.7 |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 161      | 161      | 187       | 352 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 5        | .6                                  | 1.2 |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 119      | 119      | 161       | 275 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 3        | 1.7                                 | 1.4 |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 155      | 155      | 146       | 303 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / 1        | 1.7                                 | .8  |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 116      | 116      | 136       | 305 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / -1       | .7                                  | .2  |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 58       | 59       | 71        | 166 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / -3       | .5                                  | .2  |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 44       | 44       | 51        | 142 |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / -5       | .5                                  | .0  |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 39       | 39       | 41        | 91  |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| 1 / -7       | .2                                  | .0  |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      | 13       | 13       | 14        | 87  |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| Element (X)  | Σ x'                                |     |     | Σ x |     |      | Σ     |       |       | Σ <sup>2</sup> |       |       | No. Obs. |       |       | Mean No. of Hours with Temperature |      |          |          |           |     |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       | ≤ 0 F                              |      | ≤ 32 F   |          | ≤ 67 F    |     | ≤ 73 F |  | ≤ 80 F |  | ≤ 93 F |  | Total |  |  |  |                    |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      |          |          |           |     |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      |          |          |           |     |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |      |          |          |           |     |        |  |        |  |        |  |       |  |  |  |                    |       |  |  |

## PSYCHROMETRIC SUMMARY

73-81

YEARS



MONTH

PAGE 2

ALL  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           | TOTAL    |          | TOTAL     |  |  |
|--------------|-------------------------------------|------|------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|--|
|              | 0                                   | 1-2  | 3-4  | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |
| - / -9       | .1                                  |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 8         | 8        | 8        | 58        |  |  |
| - / -11      | .2                                  |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 11        | 11       | 11       | 26        |  |  |
| -1 / -13     | .2                                  |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 15        | 15       | 15       | 22        |  |  |
| -1 / -15     | .1                                  |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 5         | 5        | 5        | 25        |  |  |
| - / -17      |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 14        |  |  |
| - / -19      |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 8         |  |  |
| - / -21      |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 4         |  |  |
| -2 / -23     |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 16        |  |  |
| - / -25      |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 7         |  |  |
| TOTAL        | 11.3                                | 67.5 | 15.7 | 4.0 | 1.4 | .3   |       |       |       |       |       |       |       |       |       |       |      | 6556      | 6562     | 6556     |           |  |  |

| Element (X) | $\Sigma x'$ | $\Sigma x$ | $\bar{x}$ | $s^2$  | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        | Total |
|-------------|-------------|------------|-----------|--------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|
| Rel. Hum.   | 37198237    | 488137     | 74.5      | 11.409 | 6556     | ≤ 0 F                              | ≤ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F | Total |
| Dry Bulb    | 4469391     | 151373     | 23.1      | 12.206 | 6562     | 22.0                               | 582.9  |        |        |        |        | 744   |
| Wet Bulb    | 3820769     | 139357     | 21.3      | 11.444 | 6556     | 24.5                               | 629.2  |        |        |        |        | 744   |
| Dew Point   | 2702263     | 109273     | 15.8      | 12.619 | 6556     | 75.6                               | 678.7  |        |        |        |        | 744   |



## PSYCHROMETRIC SUMMARY

|         |                   |
|---------|-------------------|
| 72-251  | YOUNGSTOWN MAP OH |
| STATION | STATION NAME      |

73-81

YEARS

FEA  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       |          |          |           | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|----------------|----------|-------|------------------------------------|--------|--------|--------|--------|--------|-------|----------|----------|-----------|--------------------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14          | 15-16    | 17-18 | 19-20                              | 21-22  | 23-24  | 25-26  | 27-28  | 29-30  | ≥ 31  | Dry Bulb | Wet Bulb | Dew Point |                    |       |  |  |
| 4 / 53       |                                     | .4  | .7  |     |     | .1   | .1    |                |          |       |                                    |        |        |        |        |        |       | 10       | 10       |           |                    |       |  |  |
| 2 / 51       |                                     | .4  | .8  |     | .3  | .7   |       |                |          |       |                                    |        |        |        |        |        |       | 16       | 16       | 5         |                    |       |  |  |
| 5 / 40       |                                     | .1  | .3  |     | .1  | .3   |       |                |          |       |                                    |        |        |        |        |        |       | 6        | 6        | 9         |                    |       |  |  |
| 4 / 47       |                                     | .7  |     | .3  |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 7        | 7        | 8         |                    |       |  |  |
| 4 / 45       |                                     | .1  | .1  | .4  |     | .4   |       |                |          |       |                                    |        |        |        |        |        |       | 8        | 8        | 5         |                    |       |  |  |
| 4 / 43       | .1                                  | .7  | .4  | .3  | .5  |      |       |                |          |       |                                    |        |        |        |        |        |       | 15       | 15       | 8         |                    |       |  |  |
| 2 / 41       |                                     | .8  | .4  | .5  | .4  |      |       |                |          |       |                                    |        |        |        |        |        |       | 16       | 16       | 17        |                    |       |  |  |
| 4 / 39       | .1                                  | .3  | .8  | 1.1 | .8  |      |       |                |          |       |                                    |        |        |        |        |        |       | 23       | 23       | 11        |                    |       |  |  |
| 3 / 37       | .1                                  | .5  | .4  | .9  |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 15       | 15       | 12        |                    |       |  |  |
| 3 / 35       | .7                                  | 2.8 | .7  | .7  |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 36       | 36       | 28        |                    |       |  |  |
| 3 / 33       | 1.2                                 | 2.4 | 1.9 | .3  |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 43       | 43       | 47        |                    |       |  |  |
| 2 / 31       | .3                                  | 1.3 | 1.1 | .7  |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 25       | 25       | 37        |                    |       |  |  |
| 3 / 29       | .1                                  | 1.7 | 2.1 | .3  |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 32       | 32       | 24        |                    |       |  |  |
| 2 / 27       | .1                                  | 5.2 | 1.1 | .3  |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 50       | 50       | 29        |                    |       |  |  |
| 2 / 25       |                                     | 3.1 | 2.4 | .1  |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 42       | 42       | 57        |                    |       |  |  |
| 2 / 23       |                                     | 1.7 | 1.3 |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 23       | 23       | 36        |                    |       |  |  |
| 2 / 21       | .4                                  | 3.1 | 1.1 |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 34       | 34       | 40        |                    |       |  |  |
| 2 / 19       | .9                                  | 4.8 | .7  |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 48       | 48       | 37        |                    |       |  |  |
| 1 / 17       |                                     | 4.9 | .9  |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 44       | 44       | 49        |                    |       |  |  |
| 1 / 15       | .5                                  | 5.1 |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 42       | 42       | 53        |                    |       |  |  |
| 1 / 13       | 1.1                                 | 4.7 |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 43       | 43       | 39        |                    |       |  |  |
| 1 / 11       | 1.3                                 | 2.4 |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 28       | 28       | 39        |                    |       |  |  |
| / 9          | 1.3                                 | 3.9 | .4  |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 42       | 43       | 44        |                    |       |  |  |
| / 7          | .8                                  | 2.1 |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 22       | 22       | 25        |                    |       |  |  |
| / 5          | .1                                  | 1.5 |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 12       | 12       | 22        |                    |       |  |  |
| / 3          | 1.3                                 | 1.9 |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 24       | 24       | 20        |                    |       |  |  |
| / 1          | 1.2                                 | 1.1 |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 17       | 17       | 21        |                    |       |  |  |
| / -1         | 1.6                                 |     |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 12       | 12       | 14        |                    |       |  |  |
| - / -3       | .8                                  | .1  |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 7        | 7        | 7         |                    |       |  |  |
| - / -5       | .3                                  |     |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 2        | 2        | 2         |                    |       |  |  |
| - / -7       | .5                                  |     |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       | 4        | 4        | 4         |                    |       |  |  |
| - / -9       |                                     |     |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       |          |          |           |                    |       |  |  |
| - / -11      |                                     |     |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       |          |          |           |                    |       |  |  |
| -1 / -13     |                                     |     |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       |          |          |           |                    |       |  |  |
| Element (X)  | Σ X'                                |     |     | Σ X |     |      | Σ     | σ <sub>x</sub> | No. Obs. |       | Mean No. of Hours with Temperature |        |        |        |        |        |       |          |          |           |                    |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |                |          |       | ≤ 0 F                              | ≤ 32 F | ≤ 67 F | ≤ 73 F | ≤ 80 F | ≤ 93 F | Total |          |          |           |                    |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       |          |          |           |                    |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       |          |          |           |                    |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |                |          |       |                                    |        |        |        |        |        |       |          |          |           |                    |       |  |  |

## PSYCHROMETRIC SUMMARY

YEARS

FREE  
MONTH

PAGE 2 ~~0000-0200~~  
HOURS L. S. Y.

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           | TOTAL    |          | TOTAL     |   |  |
|--------------|-------------------------------------|-------|------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|---|--|
|              | 0                                   | 1-2   | 3-4  | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B.-W.B. | Dry Bulb | Wet Bulb | Dew Point |   |  |
| -1 / -15     |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 1 |  |
| - / -19      |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 3 |  |
| TOTAL        | 1-                                  | 157.9 | 17.5 | 5.7 | 2.1 | 1.5  | .1    |       |       |       |       |       |       |       |       |       |      |           | 748      | 749      | 748       |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |
|              |                                     |       |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
JUL 64

## PSYCHROMETRIC SUMMARY

YEARS

FEE

HOURS (L, S, T)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      |          |          |           | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|----------|------------------------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|----------|----------|-----------|--------------------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8      | 9-10                               | 11-12  | 13-14  | 15-16  | 17-18  | 19-20  | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | Dry Bulb | Wet Bulb | Dew Point |                    |       |  |  |
| 5 / 55       |                                     |     | .1  |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 1        | 1        |           |                    |       |  |  |
| 4 / 53       |                                     | .4  | .4  |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 6        | 6        |           |                    |       |  |  |
| 2 / 51       |                                     |     |     |     |          | .1                                 |        |        |        |        |        |       |       |       |       |       |      | 1        | 1        | 5         |                    |       |  |  |
| 5 / 49       |                                     | .4  | .3  |     | .1       | 1.0                                |        |        |        |        |        |       |       |       |       |       |      | 13       | 13       | 5         |                    |       |  |  |
| 1 / 47       |                                     | 1.0 | .1  | .1  | .5       | .3                                 |        |        |        |        |        |       |       |       |       |       |      | 15       | 15       | 1         |                    |       |  |  |
| 4 / 45       |                                     | 1.1 | .3  | .3  | .4       | .1                                 |        |        |        |        |        |       |       |       |       |       |      | 16       | 16       | 9         |                    |       |  |  |
| 4 / 43       |                                     | .8  | .1  | .1  | .1       |                                    |        |        |        |        |        |       |       |       |       |       |      | 9        | 9        | 10        |                    |       |  |  |
| 2 / 41       | .3                                  | .5  | .1  | .7  | .3       |                                    |        |        |        |        |        |       |       |       |       |       |      | 14       | 14       | 20        |                    |       |  |  |
| 4 / 39       | .1                                  |     | .1  | .4  | .4       |                                    |        |        |        |        |        |       |       |       |       |       |      | 8        | 8        | 10        |                    |       |  |  |
| 3 / 37       | .1                                  | 1.0 | 1.0 | 1.1 | .3       |                                    |        |        |        |        |        |       |       |       |       |       |      | 25       | 25       | 13        |                    |       |  |  |
| 1 / 35       | 1.0                                 | 1.6 | 1.0 | 1.2 |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 35       | 36       | 22        |                    |       |  |  |
| 3 / 33       | 1.0                                 | 1.4 | 2.3 | .5  |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 38       | 38       | 38        |                    |       |  |  |
| 12 / 31      | .5                                  | 2.6 | 2.0 | .3  |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 40       | 40       | 38        |                    |       |  |  |
| 3 / 29       |                                     | 1.1 | 1.4 |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 18       | 18       | 33        |                    |       |  |  |
| 2 / 27       | .4                                  | 4.1 | 1.1 | .4  |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 44       | 44       | 32        |                    |       |  |  |
| 2 / 25       |                                     | 2.9 | 1.8 |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 34       | 34       | 40        |                    |       |  |  |
| 2 / 23       |                                     | 3.1 | 1.0 |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 30       | 31       | 34        |                    |       |  |  |
| 2 / 21       | .1                                  | 2.2 | .7  |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 21       | 21       | 36        |                    |       |  |  |
| 1 / 19       | .7                                  | 5.4 | .7  |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 50       | 51       | 30        |                    |       |  |  |
| 1 / 17       | .8                                  | 6.2 | .1  |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 53       | 53       | 62        |                    |       |  |  |
| 1 / 15       | .5                                  | 4.5 | .1  |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 38       | 38       | 53        |                    |       |  |  |
| 1 / 13       | .8                                  | 4.6 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 40       | 40       | 27        |                    |       |  |  |
| 1 / 11       | 1.1                                 | 3.7 | .3  |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 37       | 37       | 43        |                    |       |  |  |
| 1 / 9        | 1.1                                 | 3.5 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 34       | 34       | 47        |                    |       |  |  |
| 1 / 7        | 1.6                                 | 1.6 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 24       | 25       | 27        |                    |       |  |  |
| 1 / 5        | .5                                  | 1.4 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 14       | 14       | 23        |                    |       |  |  |
| 1 / 3        | 1.4                                 | 1.4 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 20       | 20       | 18        |                    |       |  |  |
| 1 / 1        | 1.2                                 | 1.6 |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 21       | 21       | 21        |                    |       |  |  |
| 1 / -1       | 1.8                                 | .1  |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 14       | 14       | 16        |                    |       |  |  |
| 1 / -3       | 1.4                                 | .4  |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 13       | 13       | 12        |                    |       |  |  |
| 1 / -5       | .5                                  |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 4        | 4        | 5         |                    |       |  |  |
| 1 / -7       | .4                                  |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 3        | 3        | 3         |                    |       |  |  |
| 1 / -9       | .4                                  |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 3        | 3        | 3         |                    |       |  |  |
| 1 / -11      |                                     |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      | 3        | 3        | 3         |                    |       |  |  |
| Element (X)  | Σ X'                                | Σ X | X   | °   | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        |       |       |       |       |       |      |          |          |           |                    |       |  |  |
| Rel. Hum.    |                                     |     |     |     |          | ≤ 0 F                              | ≤ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F | Total |       |       |       |       |      |          |          |           |                    |       |  |  |
| Dry Bulb     |                                     |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      |          |          |           |                    |       |  |  |
| Wet Bulb     |                                     |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      |          |          |           |                    |       |  |  |
| Dew Point    |                                     |     |     |     |          |                                    |        |        |        |        |        |       |       |       |       |       |      |          |          |           |                    |       |  |  |

## PSYCHROMETRIC SUMMARY

73-81

FEB  
MONTH

PAGE 2 ~~0300-0500~~  
HOURS 11:55-1:00

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
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PAGE 2 ~~0600-0800~~  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  | TOTAL |  | TOTAL |  |  |  |
|--------------|-------------------------------------|------|------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|-----|--|-----|--|--|--|--|-------|--|-------|--|--|--|
|              | 0                                   | 1-2  | 3-4  | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |     |  |     |  |  |  |  |       |  |       |  |  |  |
| -1 / -13     | .3                                  |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           | 2        | 2        | 2         | 7   |  |     |  |  |  |  |       |  |       |  |  |  |
| -1 / -15     |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 1   |  |     |  |  |  |  |       |  |       |  |  |  |
| -1 / -17     |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 8   |  |     |  |  |  |  |       |  |       |  |  |  |
| -1 / -19     |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 5   |  |     |  |  |  |  |       |  |       |  |  |  |
| -1 / -21     |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 1   |  |     |  |  |  |  |       |  |       |  |  |  |
| TAL          | 22.1                                | 53.4 | 16.5 | 4.8 | 2.3 | .9   |       |       |       |       |       |       |       |       |       |       |      |           | 747      | 747      | 747       | 747 |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 747 |  | 747 |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |     |  |  |  |  |       |  |       |  |  |  |

## PSYCHROMETRIC SUMMARY

YEARS

FEB  
MONTH

PAGE 1 1900-1100  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

FEB  
MONTH

PAGE 2 ~~0900-1100~~  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |     |     |     |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |           | TOTAL    |          |           |    |
|--------------|-------------------------------------|------|-----|-----|-----|----|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-----------|----------|----------|-----------|----|
|              | 0                                   | 1    | 2   | 3   | 4   | 5  | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |    |
| - / -5       | .3                                  |      |     |     |     |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 2        | 2        | 3         | 13 |
| - / -7       | .1                                  |      |     |     |     |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 1         | 1        | 1        | 10        |    |
| - / -9       |                                     |      |     |     |     |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 3         |    |
| - / -11      |                                     |      |     |     |     |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 2         |    |
| -1 / -13     |                                     |      |     |     |     |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 1         |    |
| -1 / -15     |                                     |      |     |     |     |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 4         |    |
| - / -17      |                                     |      |     |     |     |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 3         |    |
| - / -19      |                                     |      |     |     |     |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 3         |    |
| TOTAL        | 12.055                              | 9.19 | 5.6 | 3.1 | 1.4 | .7 |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 737      | 737      | 737       |    |
|              |                                     |      |     |     |     |    |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 737      |          | 737       |    |

| Element (X) | $\Sigma x^2$ | $\Sigma x$ | $\bar{x}$ | $s^2$ | No. Obs. | Mean No. of Hours with Temperature |                         |                         |                         |                         |                         | Total |
|-------------|--------------|------------|-----------|-------|----------|------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------|
| Rel. Hum.   | 3964470      | 53130      | 72.113    | 511   | 737      | $\leq 0^\circ\text{F}$             | $\leq 32^\circ\text{F}$ | $\geq 67^\circ\text{F}$ | $\geq 73^\circ\text{F}$ | $\geq 80^\circ\text{F}$ | $\geq 93^\circ\text{F}$ | Total |
| Dry Bulb    | 579106       | 18302      | 24.813    | 012   | 737      | 1.3                                | 62.1                    |                         |                         |                         |                         | 84    |
| Wet Bulb    | 478183       | 16637      | 22.611    | .808  | 737      | 1.6                                | 67.1                    |                         |                         |                         |                         | 84    |
| Dew Point   | 324420       | 12284      | 16.712    | .752  | 737      | 7.9                                | 75.3                    |                         |                         |                         |                         | 84    |

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

12-257 YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81

YEARS

FEB  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |    |    | TOTAL |  | TOTAL |  |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|----|----|-------|--|-------|--|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |    |    |       |  |       |  |  |  |
| 6 / 65       |                                     |     |     |     |     |      |       | .7    |       | .1    |       |       |       |       |       |       |      | 3         |          | 3        |           |    |    |       |  |       |  |  |  |
| 4 / 63       |                                     |     |     |     |     |      |       | .1    | .1    |       |       |       |       |       |       |       |      | 2         |          | 2        |           |    |    |       |  |       |  |  |  |
| 1 / 61       |                                     |     |     |     |     |      |       | .1    | .1    |       |       |       |       |       |       |       |      | 2         |          | 2        |           |    |    |       |  |       |  |  |  |
| 1 / 59       |                                     |     |     |     |     |      | .1    | .3    |       |       |       |       |       |       |       |       |      | 3         |          | 3        |           |    |    |       |  |       |  |  |  |
| 5 / 57       |                                     |     |     | .1  |     |      | .4    | .1    |       |       |       |       |       |       |       |       |      | 5         |          | 5        |           |    |    |       |  |       |  |  |  |
| 5 / 55       |                                     | .1  | .7  | .3  |     |      | .1    | .1    |       |       |       |       |       |       |       |       |      | 17        |          | 10       |           |    |    |       |  |       |  |  |  |
| 4 / 53       |                                     | .4  | .3  | .3  |     |      | .3    |       |       |       |       |       |       |       |       |       |      | 9         |          | 9        |           | 9  | 2  |       |  |       |  |  |  |
| 2 / 51       |                                     | .3  | .4  | .1  | .1  | .1   |       |       |       |       |       |       |       |       |       |       |      | 8         |          | 8        |           | 8  | 3  |       |  |       |  |  |  |
| 5 / 49       |                                     | .5  | .3  | .5  | .1  |      |       |       |       |       |       |       |       |       |       |       |      | 11        |          | 11       |           | 11 | 7  |       |  |       |  |  |  |
| 4 / 47       |                                     | .3  | .4  | .1  | .4  | .4   |       |       |       |       |       |       |       |       |       |       |      | 12        |          | 12       |           | 12 | 6  |       |  |       |  |  |  |
| 4 / 45       |                                     | .3  | .5  | .4  | .5  | .1   |       |       |       |       |       |       |       |       |       |       |      | 14        |          | 14       |           | 8  | 6  |       |  |       |  |  |  |
| 4 / 43       |                                     | .5  | 1.5 | .9  | 1.2 | .4   |       |       |       |       |       |       |       |       |       |       |      | 34        |          | 34       |           | 12 | 5  |       |  |       |  |  |  |
| 2 / 41       |                                     | .3  | 1.2 | .7  | .8  |      |       |       |       |       |       |       |       |       |       |       |      | 22        |          | 22       |           | 11 | 5  |       |  |       |  |  |  |
| 1 / 39       | .1                                  | .7  | .7  | 1.2 | .3  |      |       |       |       |       |       |       |       |       |       |       |      | 22        |          | 22       |           | 23 | 15 |       |  |       |  |  |  |
| 3 / 37       |                                     | 1.7 | .7  | 1.6 | .4  | .1   |       |       |       |       |       |       |       |       |       |       |      | 34        |          | 34       |           | 33 | 17 |       |  |       |  |  |  |
| 3 / 35       | .1                                  | 1.9 | 1.5 | 1.5 |     |      |       |       |       |       |       |       |       |       |       |       |      | 37        |          | 37       |           | 29 | 19 |       |  |       |  |  |  |
| 3 / 33       | .1                                  | .5  | 2.3 | 1.3 | .3  |      |       |       |       |       |       |       |       |       |       |       |      | 34        |          | 34       |           | 39 | 28 |       |  |       |  |  |  |
| 2 / 31       | .7                                  | 1.7 | 3.2 | 1.6 |     |      |       |       |       |       |       |       |       |       |       |       |      | 54        |          | 54       |           | 46 | 23 |       |  |       |  |  |  |
| 3 / 29       | .3                                  | 2.3 | 3.2 | .7  |     |      |       |       |       |       |       |       |       |       |       |       |      | 48        |          | 49       |           | 43 | 22 |       |  |       |  |  |  |
| 1 / 27       |                                     | 3.1 | 3.3 | .4  |     |      |       |       |       |       |       |       |       |       |       |       |      | 51        |          | 51       |           | 47 | 30 |       |  |       |  |  |  |
| 1 / 25       | .1                                  | 3.3 | 4.1 | .3  |     |      |       |       |       |       |       |       |       |       |       |       |      | 59        |          | 59       |           | 66 | 36 |       |  |       |  |  |  |
| 2 / 23       | .3                                  | .8  | 2.8 |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 29        |          | 29       |           | 56 | 31 |       |  |       |  |  |  |
| 2 / 21       |                                     | 3.1 | 1.7 |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 36        |          | 36       |           | 45 | 51 |       |  |       |  |  |  |
| 1 / 19       | .1                                  | 5.5 | 3.3 |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 67        |          | 67       |           | 45 | 50 |       |  |       |  |  |  |
| 1 / 17       |                                     | 2.9 | 1.7 |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 35        |          | 35       |           | 54 | 36 |       |  |       |  |  |  |
| 1 / 15       | .3                                  | 3.2 | .5  |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 30        |          | 30       |           | 45 | 45 |       |  |       |  |  |  |
| 1 / 13       |                                     | 1.9 | .5  |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 18        |          | 18       |           | 28 | 66 |       |  |       |  |  |  |
| 1 / 11       |                                     | 1.9 | .3  |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 16        |          | 16       |           | 18 | 46 |       |  |       |  |  |  |
| 1 / 9        |                                     | 2.1 | .3  |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 18        |          | 18       |           | 20 | 34 |       |  |       |  |  |  |
| 1 / 7        |                                     | 2.0 | .3  |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 17        |          | 17       |           | 17 | 37 |       |  |       |  |  |  |
| 1 / 5        |                                     | .5  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 4         |          | 4        |           | 14 | 24 |       |  |       |  |  |  |
| 1 / 3        |                                     | .4  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 3         |          | 3        |           | 5  | 33 |       |  |       |  |  |  |
| 1 / 1        |                                     | .1  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 1         |          | 1        |           | 3  | 25 |       |  |       |  |  |  |
| 1 / -1       |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 1  | 7  |       |  |       |  |  |  |
| Element (X)  | Σ X <sup>2</sup>                    |     | Σ X |     | Σ   |      | Σ     |       | Σ     |       | Σ     |       | Σ     |       | Σ     |       | Σ    |           | Σ        |          | Σ         |    | Σ  |       |  |       |  |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |    |    |       |  |       |  |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |    |    |       |  |       |  |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |    |    |       |  |       |  |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |    |    |       |  |       |  |  |  |

USAFETAC FORM 12-257 (0-26-5 (01 A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

73-81

YEARS

~~FEB~~  
~~MONTH~~

PAGE 7      ~~122G-1400~~

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |    |  |  |  |  |  |  | TOTAL |  |  | TOTAL |  |  |
|--------------|-------------------------------------|------|------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|----|--|--|--|--|--|--|-------|--|--|-------|--|--|
|              | 0                                   | 1-2  | 3-4  | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | = 31 | D.B.-W.B. | Dry Bulb | Wet Bulb | Dew Point |    |  |  |  |  |  |  |       |  |  |       |  |  |
| - / -3       |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 10 |  |  |  |  |  |  |       |  |  |       |  |  |
| - / -5       |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 10 |  |  |  |  |  |  |       |  |  |       |  |  |
| - / -7       |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 8  |  |  |  |  |  |  |       |  |  |       |  |  |
| - / -9       |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 2  |  |  |  |  |  |  |       |  |  |       |  |  |
| - / -11      |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 2  |  |  |  |  |  |  |       |  |  |       |  |  |
| -1 / -13     |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 1  |  |  |  |  |  |  |       |  |  |       |  |  |
| -1 / -15     |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 5  |  |  |  |  |  |  |       |  |  |       |  |  |
| -1 / -17     |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 1  |  |  |  |  |  |  |       |  |  |       |  |  |
| TOTAL        | 0.142                               | 4.35 | 8.11 | .9  | 4.1 | 2.1  | 1.1   | .3    | .1    |       |       |       |       |       |       |       |      |           | 748      | 749      | 748       |    |  |  |  |  |  |  |       |  |  |       |  |  |

| Element (X) | Z <sub>X'</sub> | Z <sub>X</sub> | $\bar{X}$ | S <sub>x</sub> | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        | Total |
|-------------|-----------------|----------------|-----------|----------------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|
|             |                 |                |           |                |          | ≤ 0 F                              | ≥ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F |       |
| Rel. Hum.   | 3113327         | 48825          | 65.313    | 996            | 748      |                                    |        |        |        |        |        |       |
| Dry Bulb    | 742722          | 21754          | 29.312    | 176            | 749      |                                    | 54.6   |        |        |        |        | 84    |
| Wet Bulb    | 589331          | 19313          | 25.811    | 018            | 748      | .1                                 | 62.1   |        |        |        |        | 84    |
| Dew Point   | 373321          | 13787          | 18.312    | 787            | 748      | 5.2                                | 71.3   |        |        |        |        | 84    |

## PSYCHROMETRIC SUMMARY

YEARS

FER  
MONIN

PAGE 1 1500-1700  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

17-25- YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81

YEARS

FEB  
MONTH

PAGE 2 1500-1700  
HOURS L. S. T.

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | >31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |  |  |  |  |       |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

| Element (X) | $\Sigma X^2$ | $\Sigma X$ | $\bar{X}$ | $\sigma_s$ | No. Obs. | Mean No. of Hours with Temperature |             |             |             |             |             | Total |
|-------------|--------------|------------|-----------|------------|----------|------------------------------------|-------------|-------------|-------------|-------------|-------------|-------|
| Rel. Hum.   | 3148908      | 47288      | 63.0      | 15.115     | 751      | $\leq 0 F$                         | $\leq 32 F$ | $\leq 47 F$ | $\leq 73 F$ | $\leq 80 F$ | $\leq 93 F$ |       |
| Dry Bulb    | 784327       | 22523      | 30.0      | 12.047     | 751      |                                    | 52.7        |             |             |             |             | 84    |
| Wet Bulb    | 612779       | 19841      | 26.4      | 10.868     | 751      |                                    | 59.8        |             |             |             |             | 84    |
| Dew Point   | 375766       | 13708      | 18.3      | 12.939     | 751      | 5.6                                | 71.6        |             |             |             |             | 84    |



## PSYCHROMETRIC SUMMARY

73-81

YEARS

EE6  
MONTH

PAGE 2 ~~1800-2000~~

[illegible]

**USAFETAC** FORM 0-20-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 64

## PSYCHROMETRIC SUMMARY

YEARS

FES  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-A1

YFARS

FEB  
MONTH

PAGE 2 ~~2100-2300~~  
HOLMES & S. T.

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |   |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|-------|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|---|--|--|--|--|--|--|--|--|--|-------|--|-------|--|
|              | 0                                   | 1-2   | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |   |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -1 / -15     |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 1 |  |  |  |  |  |  |  |  |  |       |  |       |  |
| -1 / -17     |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 3 |  |  |  |  |  |  |  |  |  |       |  |       |  |
| TOTAL        | 0.559                               | 522.3 | 5.0 | 2.4 | .7  | .7   |       |       |       |       |       |       |       |       |       |       |      | 745       | 747      | 745      | 745       |   |  |  |  |  |  |  |  |  |  |       |  |       |  |



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

73-25 YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81

YEARS

FEB  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |            |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       |          |          |           |     | TOTAL<br>D.B./W.B. | TOTAL |     |  |
|--------------|-------------------------------------|-----|------------|-----|-----------|------|------------|-------|----------|-------|------------------------------------|-------------|-------------|-------------|-------------|-------------|-------|----------|----------|-----------|-----|--------------------|-------|-----|--|
|              | 0                                   | 1-2 | 3-4        | 5-6 | 7-8       | 9-10 | 11-12      | 13-14 | 15-16    | 17-18 | 19-20                              | 21-22       | 23-24       | 25-26       | 27-28       | 29-30       | >31   | Dry Bulb | Wet Bulb | Dew Point |     |                    |       |     |  |
| 6 / 55       |                                     |     |            |     |           |      | .1         |       | .7       |       |                                    |             |             |             |             |             |       | 6        |          |           | 6   |                    |       |     |  |
| 4 / 63       |                                     |     |            |     |           | .7   | .0         | .0    | .7       |       |                                    |             |             |             |             |             |       | 5        |          |           | 5   |                    |       |     |  |
| 2 / 61       |                                     |     |            |     |           |      | .7         | .0    |          |       |                                    |             |             |             |             |             |       | 4        |          |           | 4   |                    |       |     |  |
| 1 / 59       |                                     |     |            |     | .7        | .0   | .1         | .0    |          |       |                                    |             |             |             |             |             |       | 11       |          |           | 11  |                    |       |     |  |
| 1 / 57       |                                     | .0  | .1         | .1  | .0        | .1   | .1         |       |          |       |                                    |             |             |             |             |             |       | 21       |          |           | 21  |                    |       |     |  |
| 5 / 55       |                                     | .1  | .3         | .1  | .1        | .1   | .1         |       |          |       |                                    |             |             |             |             |             |       | 44       |          |           | 44  |                    |       | 1   |  |
| 4 / 53       |                                     | .3  | .3         | .2  | .1        | .2   | .1         |       |          |       |                                    |             |             |             |             |             |       | 61       |          |           | 61  |                    | 28    | 4   |  |
| 2 / 51       |                                     | .2  | .4         | .1  | .1        | .3   | .7         |       |          |       |                                    |             |             |             |             |             |       | 65       |          |           | 65  |                    | 39    | 13  |  |
| 5 / 47       |                                     | .3  | .2         | .3  | .3        | .3   | .7         |       |          |       |                                    |             |             |             |             |             |       | 77       |          |           | 77  |                    | 57    | 35  |  |
| 1 / 47       |                                     | .6  | .2         | .2  | .3        | .2   |            |       |          |       |                                    |             |             |             |             |             |       | 93       |          |           | 93  |                    | 63    | 47  |  |
| 4 / 45       |                                     | .5  | .4         | .3  | .4        | .2   |            |       |          |       |                                    |             |             |             |             |             |       | 108      |          |           | 108 |                    | 76    | 62  |  |
| 4 / 43       | .1                                  | .8  | .4         | .3  | .6        | .2   |            |       |          |       |                                    |             |             |             |             |             |       | 140      |          |           | 140 |                    | 94    | 53  |  |
| 2 / 41       |                                     | .5  | .7         | .8  | .6        |      |            |       |          |       |                                    |             |             |             |             |             |       | 161      |          |           | 161 |                    | 123   | 57  |  |
| 4 / 39       | .1                                  | .5  | .7         | .8  | .5        | .1   |            |       |          |       |                                    |             |             |             |             |             |       | 156      |          |           | 156 |                    | 104   | 63  |  |
| 3 / 37       | .2                                  | 1.2 | 1.7        | 1.1 | .2        | .1   |            |       |          |       |                                    |             |             |             |             |             |       | 223      |          |           | 223 |                    | 173   | 65  |  |
| 1 / 35       | .6                                  | 1.8 | 1.1        | 1.0 | .2        |      |            |       |          |       |                                    |             |             |             |             |             |       | 269      |          |           | 270 |                    | 238   | 114 |  |
| 3 / 33       | .7                                  | 1.9 | 1.9        | .6  | .1        |      |            |       |          |       |                                    |             |             |             |             |             |       | 311      |          |           | 312 |                    | 334   | 183 |  |
| 2 / 31       | .6                                  | 1.8 | 2.4        | .7  | .1        |      |            |       |          |       |                                    |             |             |             |             |             |       | 328      |          |           | 328 |                    | 316   | 229 |  |
| 1 / 29       | .2                                  | 1.8 | 2.5        | .3  | .1        |      |            |       |          |       |                                    |             |             |             |             |             |       | 287      |          |           | 289 |                    | 294   | 219 |  |
| 2 / 27       | .2                                  | 3.6 | 2.3        | .5  | .7        |      |            |       |          |       |                                    |             |             |             |             |             |       | 396      |          |           | 396 |                    | 273   | 197 |  |
| 1 / 25       | .2                                  | 2.8 | 2.8        | .2  |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 358      |          |           | 358 |                    | 449   | 286 |  |
| 2 / 23       | .1                                  | 2.1 | 1.5        | .0  |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 225      |          |           | 226 |                    | 355   | 178 |  |
| 2 / 21       | .3                                  | 2.9 | 1.4        |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 274      |          |           | 274 |                    | 340   | 364 |  |
| 1 / 19       | .7                                  | 4.9 | 1.6        | .0  |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 432      |          |           | 433 |                    | 321   | 361 |  |
| 1 / 17       | .4                                  | 4.1 | 1.1        |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 332      |          |           | 332 |                    | 417   | 306 |  |
| 1 / 15       | .3                                  | 4.1 | .6         |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 293      |          |           | 293 |                    | 350   | 325 |  |
| 1 / 13       | .5                                  | 3.6 | .2         |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 256      |          |           | 256 |                    | 282   | 383 |  |
| 1 / 11       | .7                                  | 2.6 | .2         |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 208      |          |           | 208 |                    | 261   | 401 |  |
| 1 / 9        | .7                                  | 2.7 | .2         |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 212      |          |           | 213 |                    | 262   | 338 |  |
| 1 / 7        | .5                                  | 2.1 | .1         |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 166      |          |           | 167 |                    | 178   | 314 |  |
| 1 / 5        | .2                                  | 1.3 | .7         |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 91       |          |           | 91  |                    | 151   | 218 |  |
| 1 / 3        | .7                                  | 1.1 |            |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 103      |          |           | 103 |                    | 111   | 244 |  |
| 1 / 1        | .3                                  | 1.1 |            |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 114      |          |           | 114 |                    | 122   | 294 |  |
| 1 / -1       | .8                                  | .1  |            |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       | 54       |          |           | 54  |                    | 69    | 147 |  |
| Element (X)  | $\Sigma X'$                         |     | $\Sigma X$ |     | $\bar{X}$ |      | $\sigma^2$ |       | No. Obs. |       | Mean No. of Hours with Temperature |             |             |             |             |             |       | Total    |          |           |     |                    |       |     |  |
| Rel. Hum.    |                                     |     |            |     |           |      |            |       |          |       | $\leq 0 F$                         | $\leq 32 F$ | $\leq 67 F$ | $\leq 73 F$ | $\leq 80 F$ | $\leq 93 F$ | Total |          |          |           |     |                    |       |     |  |
| Dry Bulb     |                                     |     |            |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       |          |          |           |     |                    |       |     |  |
| Wet Bulb     |                                     |     |            |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       |          |          |           |     |                    |       |     |  |
| Dew Point    |                                     |     |            |     |           |      |            |       |          |       |                                    |             |             |             |             |             |       |          |          |           |     |                    |       |     |  |

USAFETAC FORM 0-26-5 (OL A) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

STATION YOUNGSTOWN MAP OH STATION NAME

73-81

YEARS

FEB  
MONTH

PAGE 2

ALL  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           | TOTAL | TOTAL |  |  |  |
|--------------|-------------------------------------|-------|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----------|----------|----------|-----------|-------|-------|--|--|--|
|              | 0                                   | 1-2   | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | >31 | D.B.-W.B. | Dry Bulb | Wet Bulb | Dew Point |       |       |  |  |  |
| - / -3       | .4                                  | .1    |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     | 29        | 29       | 30       | 96        |       |       |  |  |  |
| - / -5       | .3                                  | .2    |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     | 19        | 19       | 21       | 119       |       |       |  |  |  |
| - / -7       | .2                                  |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     | 14        | 14       | 14       | 81        |       |       |  |  |  |
| - / -9       | .2                                  |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     | 9         | 9        | 9        | 61        |       |       |  |  |  |
| - / -11      | .1                                  |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     | 1         | 1        | 1        | 23        |       |       |  |  |  |
| -1 / -13     | .1                                  |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     | 2         | 2        | 2        | 16        |       |       |  |  |  |
| -1 / -15     |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          | 27        |       |       |  |  |  |
| - / -17      |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          | 20        |       |       |  |  |  |
| - / -19      |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          | 14        |       |       |  |  |  |
| - / -21      |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          | 1         |       |       |  |  |  |
| TOTAL        | 10.751                              | 724.5 | 7.4 | 3.4 | 1.6 | .6   | .1    | .1    |       |       |       |       |       |       |       |       |     | 5958      | 5966     | 5958     | 5958      |       |       |  |  |  |

| Element (X) | $\Sigma x^2$ | $\Sigma x$ | $\bar{x}$ | $\sigma^2$ | No. Obs. | Mean No. of Hours with Temperature |             |             |             |             |             | Total |
|-------------|--------------|------------|-----------|------------|----------|------------------------------------|-------------|-------------|-------------|-------------|-------------|-------|
| Rel. Hum.   | 30434984     | 417384     | 70.114    | 166        | 5958     | $\leq 0 F$                         | $\leq 32 F$ | $\geq 67 F$ | $\geq 73 F$ | $\geq 80 F$ | $\geq 93 F$ |       |
| Dry Bulb    | 4874110      | 151082     | 25.313    | 256        | 5966     | 14.4                               | 474.1       |             |             |             |             | 672   |
| Wet Bulb    | 3979134      | 136148     | 22.912    | 071        | 5958     | 16.5                               | 522.0       |             |             |             |             | 672   |
| Dew Point   | 2645878      | 97824      | 16.413    | 211        | 5958     | 68.2                               | 593.5       |             |             |             |             | 672   |



## PSYCHROMETRIC SUMMARY

73-81

YEARS

MAR  
MONTH

PAGE 2 ~~3000-0200~~  
HOURS (L. S. T.)

[illegible]

USAFETAC  
FORM  
JUL 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

77-25      YOUNGSTOWN MAP OH  
STATION      STATION NAME

73-61

YEARS

MAR  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-81

YEARS

MAJ  
MONT

PAGE 2 ~~0300-0500~~  
HOURS 11:30-1:00

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  | TOTAL | TOTAL |  |  |
|--------------|-------------------------------------|-------|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|-----|--|--|--|--|--|--|-------|-------|--|--|
|              | 0                                   | 1-2   | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |     |  |  |  |  |  |  |       |       |  |  |
| - / -3       | .1                                  |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           | 1        | 1        | 2         | 4   |  |  |  |  |  |  |       |       |  |  |
| - / -5       | .1                                  |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           | 1        | 1        | 1         | 2   |  |  |  |  |  |  |       |       |  |  |
| - / -7       | .1                                  |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           | 1        | 1        | 1         | 1   |  |  |  |  |  |  |       |       |  |  |
| - / -9       |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 1   |  |  |  |  |  |  |       |       |  |  |
| - / -11      |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 3   |  |  |  |  |  |  |       |       |  |  |
| -1 / -15     |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 1   |  |  |  |  |  |  |       |       |  |  |
| TOTAL        | 5.948                               | 5.529 | 6   | 8.6 | 4.7 | 1.7  | 1.0   |       |       |       |       |       |       |       |       |       |      |           | 802      | 805      |           | 802 |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |
|              |                                     |       |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |  |  |  |  |  |  |       |       |  |  |

## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MONTH

PAGE 1 06CD-08CD  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

**MAE**  
**MONTH**

~~0600-0800~~  
HOURS (L. S. Y.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |       |     |     |     |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |           | TOTAL    |          |           |     |
|--------------|-------------------------------------|-------|-----|-----|-----|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-----------|----------|----------|-----------|-----|
|              | 0                                   | 1     | 2   | 3   | 4   | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | D.B.-W.B. | Dry Bulb | Wet Bulb | Dew Point |     |
| - / -3       | .1                                  |       |     |     |     |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 1        | 1        | 3         | 5   |
| - / -5       |                                     |       |     |     |     |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 3   |
| - / -7       |                                     |       |     |     |     |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 1   |
| - / -9       | .1                                  |       |     |     |     |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 1        | 1        | 1         | 1   |
| - / -11      |                                     |       |     |     |     |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 3   |
| - / -13      |                                     |       |     |     |     |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 1   |
| 7 1.1        | 7.252                               | 125.0 | 9.0 | 5.0 | 1.7 |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 823      | 824      | 823       | 823 |

USAFETAC  
FORM  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MONTH

0900-1100  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | TOTAL |           | TOTAL    |          |           |
|--------------|-------------------------------------|-----|-----|-----|-----|----|----|----|----|----|----|----|----------------|----|----|----|----------|----|----|----|------------------------------------|--------|--------|--------|--------|--------|-------|----|----|----|----|-------|-----------|----------|----------|-----------|
|              | 0                                   | 1   | 2   | 3   | 4   | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12             | 13 | 14 | 15 | 16       | 17 | 18 | 19 | 20                                 | 21     | 22     | 23     | 24     | 25     | 26    | 27 | 28 | 29 | 30 | 31    | D.B.-W.B. | Dry Bulb | Wet Bulb | Dew Point |
| 1 / 69       |                                     |     |     |     |     |    |    |    |    | .1 | .1 | .1 |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    |       | 3         | 3        |          |           |
| 2 / 67       |                                     |     |     |     |     |    |    |    |    | .1 | .2 |    | .1             |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    |       | 4         | 4        |          |           |
| 3 / 65       |                                     |     |     | .1  | .2  | .5 | .1 |    |    |    |    | .2 |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 17    | 17        |          |          |           |
| 4 / 63       |                                     |     |     |     | .2  | .1 | .1 | .1 | .1 | .2 |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 7     | 7         |          |          |           |
| 5 / 61       |                                     |     |     |     | .1  | .4 | .1 |    | .1 |    |    | .1 |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 6     | 6         | 5        |          |           |
| 6 / 59       |                                     |     | .2  | .5  | .1  | .4 | .2 | .4 | .2 |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 17    | 17        | 2        | 1        |           |
| 7 / 57       |                                     |     | .5  | 1.0 | .6  | .1 | .4 | .4 |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 24    | 24        | 11       | 3        |           |
| 8 / 55       |                                     |     | .2  | .7  | .2  | .1 | .4 |    | .1 |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 15    | 15        | 11       | 5        |           |
| 9 / 53       |                                     |     | .9  | .9  | .6  | .2 | .2 | .1 |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 24    | 24        | 21       | 10       |           |
| 10 / 51      |                                     |     | .6  | .5  | .1  | .5 | .4 | .2 |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 19    | 19        | 22       | 12       |           |
| 11 / 49      |                                     |     | 1.2 | .5  | .5  | .4 | .6 | .1 |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 27    | 27        | 22       | 24       |           |
| 12 / 47      | .1                                  | 2.4 | .2  | .1  | .4  | .4 |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 37    | 37        | 33       | 27       |           |
| 13 / 45      |                                     | 2.2 | .7  | 1.1 | .9  | .5 |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 44    | 44        | 31       | 21       |           |
| 14 / 43      | .1                                  | 1.2 | .7  | 1.1 | 1.1 | .5 |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 39    | 39        | 34       | 27       |           |
| 15 / 41      |                                     | 1.5 | 1.6 | 2.6 | .6  |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 51    | 52        | 29       | 28       |           |
| 16 / 39      | .2                                  | 1.9 | 2.2 | 1.5 | .7  |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 54    | 54        | 37       | 13       |           |
| 17 / 37      |                                     | .4  | 1.3 | 1.1 | 1.8 | .4 |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 41    | 41        | 52       | 33       |           |
| 18 / 35      | .1                                  | 3.0 | 2.4 | 1.9 | .1  |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 63    | 63        | 65       | 30       |           |
| 19 / 33      | .4                                  | 2.4 | 3.9 | 1.3 |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 66    | 66        | 64       | 24       |           |
| 20 / 31      |                                     | 2.7 | 4.0 | 1.7 |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 69    | 69        | 62       | 62       |           |
| 21 / 29      |                                     | 2.3 | 3.4 | .5  |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 51    | 51        | 68       | 42       |           |
| 22 / 27      |                                     | 1.6 | 2.3 | .1  |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 33    | 33        | 60       | 64       |           |
| 23 / 25      | .6                                  | 1.9 | 2.4 |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 41    | 41        | 62       | 65       |           |
| 24 / 23      |                                     | 1.7 | .9  |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 21    | 21        | 35       | 40       |           |
| 25 / 21      |                                     | 1.5 | .9  |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 19    | 19        | 36       | 49       |           |
| 26 / 19      |                                     | 1.1 | .6  |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 14    | 14        | 12       | 61       |           |
| 27 / 17      |                                     | 1.1 | .1  |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 10    | 10        | 17       | 48       |           |
| 28 / 15      |                                     | .9  | .1  |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 8     | 8         | 12       | 35       |           |
| 29 / 13      |                                     | .4  |     |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 3     | 3         | 6        | 31       |           |
| 30 / 11      |                                     | .5  |     |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 4     | 4         | 4        | 18       |           |
| 31 / 9       |                                     |     |     |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    |       |           |          | 4        | 16        |
| 32 / 7       |                                     | .2  |     |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 2     | 2         |          | 11       |           |
| 33 / 5       |                                     |     |     |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    |       |           |          | 2        | 9         |
| 34 / 3       |                                     | .2  |     |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    | 2     | 2         | 2        | 2        |           |
| Element (X)  | ΣX'                                 |     |     |     | ΣX  |    |    |    | X̄ |    |    |    | σ <sub>X</sub> |    |    |    | No. Obs. |    |    |    | Mean No. of Hours with Temperature |        |        |        |        |        |       |    |    |    |    |       |           |          |          |           |
| Rel. Hum.    |                                     |     |     |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    | ≤ 0 F                              | ≤ 32 F | ≤ 67 F | ≤ 73 F | ≤ 80 F | ≤ 93 F | Total |    |    |    |    |       |           |          |          |           |
| Dry Bulb     |                                     |     |     |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    |       |           |          |          |           |
| Wet Bulb     |                                     |     |     |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    |       |           |          |          |           |
| Dew Point    |                                     |     |     |     |     |    |    |    |    |    |    |    |                |    |    |    |          |    |    |    |                                    |        |        |        |        |        |       |    |    |    |    |       |           |          |          |           |

## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MONTH

PAGE 2 0900-1100  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |      |     |     |     |     |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |           | TOTAL    |          |           |   |
|--------------|-------------------------------------|------|------|------|-----|-----|-----|-----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-----------|----------|----------|-----------|---|
|              | 0                                   | 1    | 2    | 3    | 4   | 5   | 6   | 7   | 8  | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | D.B.-W.B. | Dry Bulb | Wet Bulb | Dew Point |   |
| / 1          |                                     |      |      | .1   |     |     |     |     |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 1        | 1        | 1         | 5 |
| - / -3       |                                     |      |      |      |     |     |     |     |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 1 |
| - / -5       |                                     |      |      |      |     |     |     |     |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 1 |
| - / -7       |                                     |      |      |      |     |     |     |     |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 4 |
| TOTAL        | 1.9                                 | 35.9 | 31.8 | 16.5 | 6.9 | 4.3 | 1.5 | 1.7 | .2 |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 822      | 823      | 822       |   |

| Element (X) | Z <sub>1</sub> <sup>1</sup> | Z <sub>1</sub> | X̄   | s <sub>x</sub> | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        | Total |
|-------------|-----------------------------|----------------|------|----------------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|
| Rel. Hum.   | 4066314                     | 56422          | 68.6 | 15.353         | 822      | ≤ 0 F                              | ≤ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F |       |
| Dry Bulb    | 1311666                     | 31386          | 38.1 | 11.814         | 823      |                                    | 31.4   | .8     |        |        |        | 93    |
| Wet Bulb    | 1063220                     | 28230          | 34.3 | 10.684         | 822      |                                    | 43.3   |        |        |        |        | 93    |
| Dew Point   | 773580                      | 23110          | 28.1 | 12.283         | 822      | .7                                 | 63.8   |        |        |        |        | 93    |

**USAFETAC**  
FORM  
JUL 84  
0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

73-81

YEARS

MAR  
MONTH

PAGE 1 1200-1400  
HOURS (L-5-T-1)

[illegible]

**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

|         |                   |
|---------|-------------------|
| 72525   | YOUNGSTOWN MAP OH |
| STATION | STATION NAME      |

73-81

YEARS

MAR  
MONTH

PAGE 2      1200-1400  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     |    |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |  |
|--------------|-------------------------------------|------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|-----|----|--|--|--|--|--|--|--|--|-------|--|-------|--|--|
|              | 0                                   | 1-2  | 3-4  | 5-6  | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |     |    |  |  |  |  |  |  |  |  |       |  |       |  |  |
| / 7          |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | 4   | 11 |  |  |  |  |  |  |  |  |       |  |       |  |  |
| / 5          |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     | 8  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| / 3          |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     | 2  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| / 1          |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     | 3  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| - / -3       |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     | 4  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| - / -5       |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |     | 1  |  |  |  |  |  |  |  |  |       |  |       |  |  |
| TOTAL        | .920                                | .227 | .921 | .013 | .1  | 7.6  | 4.4   | 2.6   | 1.7   | .5    | .1    |       |       |       |       |       |      |           | 815      | 816      |           | 815 |    |  |  |  |  |  |  |  |  |       |  |       |  |  |

| Element (X) | Σ x <sup>2</sup> | Σ x   | x̄   | s <sub>x</sub> | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        | Total |
|-------------|------------------|-------|------|----------------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|
| Rel. Hum.   | 3302368          | 50036 | 61.4 | 16.826         | 815      | ≥ 0 F                              | ≥ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F |       |
| Dry Bulb    | 1604000          | 34696 | 42.5 | 12.568         | 816      |                                    | 21.1   | 3.5    | .7     |        |        | 93    |
| Wet Bulb    | 1221967          | 37295 | 37.2 | 10.846         | 815      |                                    | 35.8   |        |        |        |        | 93    |
| Dew Point   | 824728           | 23814 | 29.2 | 12.583         | 815      | .6                                 | 61.3   |        |        |        |        | 93    |



## PSYCHROMETRIC SUMMARY

**YEARS**

MAR  
MONTH

| Temp<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |      |      |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |           | TOTAL    |          |           |    |
|-------------|-------------------------------------|------|------|------|------|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-----------|----------|----------|-----------|----|
|             | 0                                   | 1    | 2    | 3    | 4    | 5   | 6   | 7   | 8   | 9   | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |    |
| 10 / 4      |                                     |      |      | .1   |      |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 1        | 1        | 1         | 15 |
| 9 / 7       |                                     |      |      |      |      |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 1         | 19 |
| 8 / 5       |                                     |      |      |      |      |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 5  |
| 7 / 3       |                                     |      |      |      |      |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 5  |
| 6 / 1       |                                     |      |      |      |      |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 6  |
| 5 / -3      |                                     |      |      |      |      |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          |           | 2  |
| TOTAL       | .4                                  | 17.2 | 25.4 | 16.4 | 18.0 | 7.8 | 6.6 | 3.1 | 2.8 | 1.8 | .5 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 818      | 818      | 818       |    |

| Element (X) | $\Sigma x^2$ | $\Sigma x$ | $\bar{x}$   | $s^2$  | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        | Total |
|-------------|--------------|------------|---|--------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|
| Rel. Hum.   | 3043583      | 47667      | 58.3  | 18.041 | 818      | ≤ 0 F                              | ≤ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F | Total |
| Dry Bulb    | 1706136      | 35802      | 43.8 <td>13.051</td> <td>818</td> <td></td> <td>18.6</td> <td>6.4</td> <td>1.8</td> <td>.1</td> <td></td> <td>93</td> | 13.051 | 818      |                                    | 18.6   | 6.4    | 1.8    | .1     |        | 93    |
| Wet Bulb    | 1255759      | 30809      | 37.7 <td>10.805</td> <td>818</td> <td></td> <td>33.2</td> <td></td> <td></td> <td></td> <td></td> <td>93</td>         | 10.805 | 818      |                                    | 33.2   |        |        |        |        | 93    |
| Dew Point   | 805937       | 23555      | 28.8 <td>12.500</td> <td>818</td> <td>.2</td> <td>62.3</td> <td></td> <td></td> <td></td> <td></td> <td>93</td>       | 12.500 | 818      | .2                                 | 62.3   |        |        |        |        | 93    |

USAFETAC FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

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MONTH

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |    |          |          |           | TOTAL<br>O.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|----------|-----------|--------------------|-------|--|--|
|              | 0                                   | 1-2  | 3-4  | 5-6  | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | 31 | Dry Bulb | Wet Bulb | Dew Point |                    |       |  |  |
| - / 7        |                                     | .2   |      |      |     |      |       |       |       |       |       |       |       |       |       |       |    | 2        | 2        | 1         | 17                 |       |  |  |
| - / 5        |                                     | .1   |      |      |     |      |       |       |       |       |       |       |       |       |       |       |    | 1        | 1        | 3         | 12                 |       |  |  |
| - / 3        |                                     | .1   |      |      |     |      |       |       |       |       |       |       |       |       |       |       |    | 1        | 1        | 1         | 7                  |       |  |  |
| - / 1        |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |    |          |          |           | 1                  |       |  |  |
| - / -1       |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |    |          |          |           | 3                  |       |  |  |
| - / -3       |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |    |          |          |           | 1                  |       |  |  |
| - / -5       |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |    |          |          |           | 3                  |       |  |  |
| TOTAL        | 1.223                               | .131 | .817 | .211 | .6  | 6.6  | 3.8   | 3.2   | 1.3   | .2    |       |       |       |       |       |       |    |          | 821      |           | 821                |       |  |  |

| Element (X) | $Z_X'$  | $Z_X$ | $X$  | $\sigma_X$ | No. Obs. | Mean No. of Hours with Temperature |                  |                  |                  |                  |                  |       |
|-------------|---------|-------|------|------------|----------|------------------------------------|------------------|------------------|------------------|------------------|------------------|-------|
| Rel. Hum.   | 3431825 | 51261 | 62.4 | 16.792     | 821      | $\pm 0^\circ F$                    | $\pm 32^\circ F$ | $\pm 67^\circ F$ | $\pm 73^\circ F$ | $\pm 80^\circ F$ | $\pm 93^\circ F$ | Total |
| Dry Bulb    | 1441387 | 32947 | 40.0 | 12.456     | 821      |                                    | 28.2             | 2.6              | .2               |                  |                  | 93    |
| Wet Bulb    | 1100422 | 28766 | 35.0 | 10.622     | 821      |                                    | 42.5             |                  |                  |                  |                  | 93    |
| Dew Point   | 728871  | 22365 | 27.2 | 12.078     | 821      | .8                                 | 65.1             |                  |                  |                  |                  | 93    |

**USAFETAC**  
FORMS  
JUL 44  
**0-26-5 (OLA)**  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

YEARS:

MAR  
MONTH

PAGE 1 2100-2300  
HOURS (L S T)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       |           |          |          | TOTAL     |  | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|----------------|-------|----------|-------|------------------------------------|--------|--------|--------|--------|--------|-------|-----------|----------|----------|-----------|--|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12          | 13-14 | 15-16    | 17-18 | 19-20                              | 21-22  | 23-24  | 25-26  | 27-28  | 29-30  | ≥ 31  | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |       |  |  |
| 7 / 69       |                                     |     |     |     |     |      | .1             |       | .1       |       |                                    |        |        |        |        |        |       | 2         | 2        |          |           |  |       |  |  |
| 65 / 67      |                                     |     |     |     |     |      | .4             |       |          |       |                                    |        |        |        |        |        |       | 3         | 3        |          |           |  |       |  |  |
| 66 / 65      |                                     |     |     |     |     |      |                | .2    | .2       |       |                                    |        |        |        |        |        |       | 4         | 4        |          |           |  |       |  |  |
| 64 / 63      |                                     |     |     | .1  | .4  | .7   | .4             | .1    |          |       |                                    |        |        |        |        |        |       | 14        | 14       |          |           |  |       |  |  |
| 62 / 61      |                                     |     |     | .4  | .5  | .1   |                |       |          |       |                                    |        |        |        |        |        |       | 8         | 8        |          |           |  |       |  |  |
| 61 / 59      |                                     |     | .2  | .2  |     | .1   | .2             |       |          |       |                                    |        |        |        |        |        |       | 7         | 7        | 1        |           |  |       |  |  |
| 51 / 57      |                                     | .4  | .5  |     | .5  | .1   | .1             |       |          |       |                                    |        |        |        |        |        |       | 13        | 13       | 5        |           |  |       |  |  |
| 51 / 55      |                                     | .2  | .2  | .2  | .6  | 1.7  | .4             |       |          |       |                                    |        |        |        |        |        |       | 22        | 22       | 16       | 3         |  |       |  |  |
| 54 / 53      |                                     | 1.1 | .2  | .6  | .1  | .6   | .6             |       |          |       |                                    |        |        |        |        |        |       | 27        | 27       | 18       | 3         |  |       |  |  |
| 52 / 51      | .1                                  | .5  | .7  | .2  | .5  | .2   | .1             |       |          |       |                                    |        |        |        |        |        |       | 20        | 20       | 16       | 18        |  |       |  |  |
| 51 / 49      | .1                                  | 1.7 | .6  | .6  | .4  | .1   |                |       |          |       |                                    |        |        |        |        |        |       | 29        | 29       | 24       | 14        |  |       |  |  |
| 47 / 47      |                                     | .6  | .5  | .6  | .6  | .1   | .2             |       |          |       |                                    |        |        |        |        |        |       | 22        | 22       | 28       | 22        |  |       |  |  |
| 46 / 45      |                                     | 1.1 | .2  | .4  | 1.7 | .5   |                |       |          |       |                                    |        |        |        |        |        |       | 26        | 26       | 13       | 16        |  |       |  |  |
| 44 / 43      | .1                                  | 1.7 | 1.7 | 1.1 | .7  |      |                |       |          |       |                                    |        |        |        |        |        |       | 44        | 44       | 39       | 23        |  |       |  |  |
| 42 / 41      |                                     | 1.7 | 1.1 | 1.5 | .5  |      |                |       |          |       |                                    |        |        |        |        |        |       | 39        | 39       | 34       | 23        |  |       |  |  |
| 41 / 39      | .2                                  | 1.8 | 1.2 | 1.5 | .6  |      |                |       |          |       |                                    |        |        |        |        |        |       | 44        | 44       | 45       | 26        |  |       |  |  |
| 37 / 37      |                                     | 2.1 | 2.0 | 2.2 | .1  | .1   |                |       |          |       |                                    |        |        |        |        |        |       | 53        | 53       | 44       | 23        |  |       |  |  |
| 37 / 35      |                                     | 1.7 | 2.9 | 1.3 | .1  |      |                |       |          |       |                                    |        |        |        |        |        |       | 50        | 50       | 46       | 38        |  |       |  |  |
| 34 / 33      |                                     | 2.6 | 3.3 | 1.2 |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 58        | 58       | 57       | 28        |  |       |  |  |
| 32 / 31      |                                     | 3.5 | 3.5 | 2.1 |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 75        | 75       | 63       | 40        |  |       |  |  |
| 31 / 29      |                                     | 3.4 | 3.4 | .6  |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 61        | 61       | 58       | 46        |  |       |  |  |
| 27 / 27      |                                     | 3.3 | 2.7 | .6  |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 54        | 54       | 78       | 58        |  |       |  |  |
| 26 / 25      | .2                                  | 2.1 | 2.6 |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 40        | 40       | 80       | 64        |  |       |  |  |
| 24 / 23      | .5                                  | .5  | 1.7 | .1  |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 23        | 23       | 43       | 48        |  |       |  |  |
| 22 / 21      |                                     | 1.0 | 1.7 |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 22        | 22       | 25       | 58        |  |       |  |  |
| 21 / 19      |                                     | 2.1 | .2  |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 19        | 19       | 29       | 55        |  |       |  |  |
| 18 / 17      |                                     | 2.0 |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 16        | 16       | 21       | 50        |  |       |  |  |
| 16 / 15      | .1                                  | .7  |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 7         | 7        | 13       | 40        |  |       |  |  |
| 14 / 13      |                                     | .9  |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 7         | 7        | 6        | 34        |  |       |  |  |
| 12 / 11      |                                     | .6  |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 5         | 5        | 7        | 29        |  |       |  |  |
| 11 / 9       |                                     |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       |           |          | 5        | 20        |  |       |  |  |
| 8 / 7        |                                     |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       |           |          |          | 17        |  |       |  |  |
| 7 / 5        |                                     |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       |           |          |          | 5         |  |       |  |  |
| 4 / 3        |                                     | .6  |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       | 5         | 5        | 6        | 7         |  |       |  |  |
| Element (X)  | Σ X'                                |     | Σ X |     | X   |      | σ <sub>x</sub> |       | No. Obs. |       | Mean No. of Hours with Temperature |        |        |        |        |        |       |           |          |          |           |  |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |                |       |          |       | ≤ 0 F                              | ≤ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F | Total |           |          |          |           |  |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       |           |          |          |           |  |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       |           |          |          |           |  |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |                |       |          |       |                                    |        |        |        |        |        |       |           |          |          |           |  |       |  |  |

## PSYCHROMETRIC SUMMARY

YEARS

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MONTH

PAGE 2 2100-2300  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|-------|-------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|-----------|----------|----------|-----------|---|--|--|--|--|--|--|-------|--|-------|--|
|              | 0                                   | 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |   |  |  |  |  |  |  |       |  |       |  |
| / 1          |                                     | .1    |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           | 1        | 1        | 2         | 5 |  |  |  |  |  |  |       |  |       |  |
| / -1         |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           | 1 |  |  |  |  |  |  |       |  |       |  |
| - / -3       |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           | 3 |  |  |  |  |  |  |       |  |       |  |
| - / -5       |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           | 1 |  |  |  |  |  |  |       |  |       |  |
| - / -7       |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           | 2 |  |  |  |  |  |  |       |  |       |  |
| TOTAL        | 1,537.9                             | 31.3  | 15.6  | 6.6   | 3.3   | 2.9    | .9      |         |         |         |         |         |         |         |         |         |      |           | 820      | 820      | 820       |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           | 820      | 820      | 820       |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |       |       |        |         |         |         |         | </      |         |         |         |         |         |      |           |          |          |           |   |  |  |  |  |  |  |       |  |       |  |

**USAFETAC** FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
MAR 64



## PSYCHROMETRIC SUMMARY

YEARS

MAR  
MONTH

ALL  
BS (1-5-7-)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|------|------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|--|--|--|--|--|--|--|--|--|-------|--|-------|--|
|              | 0                                   | 1-2  | 3-4  | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 11       | .0                                  | .5   |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 34        | 34       | 39       | 221       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 9        | .2                                  | .3   |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 20        | 20       | 35       | 131       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 3 / 7        | .3                                  | .2   |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 12        | 12       | 20       | 114       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 5        |                                     | .1   |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 4         | 4        | 12       | 54        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 3        | .0                                  | .2   |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 16        | 16       | 14       | 48        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6 / 1        |                                     | .2   |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 11        | 11       | 10       | 31        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 7 / -1       | .7                                  | .0   |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 6         | 6        | 6        | 12        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 8 / -3       | .1                                  |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 2         | 2        | 5        | 21        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 9 / -5       | .1                                  |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 1         | 1        | 1        | 16        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 10 / -7      | .2                                  |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 1         | 1        | 1        | 11        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 11 / -9      | .1                                  |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 1         | 1        | 1        | 4         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 12 / -11     |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 6         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 13 / -15     |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 1         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 14 / -17     |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 1         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| TOTAL        | 2.635                               | 2.29 | 0.14 | .7  | 8.8 | 4.4  | 2.8   | 1.4   | .8    | .3    | .1    |       |       |       |       |       |      | 6537      | 6544     | 6537     |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |

## PSYCHROMETRIC SUMMARY

APR  
MONTH

PAGE 1 0000-0200  
HOURS 11-5-11

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL       |            |          |          |           |    |    |    |
|--------------|-------------------------------------|-----|-----|-----|-----|-----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------------|------------|----------|----------|-----------|----|----|----|
|              | 0                                   | 1   | 2   | 3   | 4   | 5   | 6  | 7   | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31          | D.B., W.B. | Dry Bulb | Wet Bulb | Dew Point |    |    |    |
| 5 / 67       |                                     |     |     |     |     |     |    |     | .1 |    | .3 |    | .3 |    | .3 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            | 8        | 8        |           |    |    |    |
| 6 / 65       |                                     |     |     |     |     |     | .6 | 1.1 |    | .9 |    | .6 |    | .6 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            | 31       | 31       |           |    |    |    |
| 4 / 63       |                                     |     | .1  |     | .9  |     | .3 |     | .6 |    | .3 |    | .5 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            | 21       | 21       |           |    |    |    |
| 6 / 61       |                                     |     | .1  |     | .6  |     | .9 |     | .9 |    | .4 |    | .1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            | 24       | 24       |           | 4  |    |    |
| 1 / 59       |                                     |     | .6  |     | .6  |     | .8 |     | .5 |    | .3 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            | 22       | 22       |           | 18 |    |    |
| 1 / 57       |                                     |     | .8  |     | .6  |     | .3 |     |    |    |    |    | .5 |    | .4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            | 20       | 20       |           | 22 |    |    |
| 5 / 55       | .1                                  | 1.0 |     | .9  |     | .3  |    |     |    | .3 |    | .6 |    | .4 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            | 28       | 28       |           | 37 |    |    |
| 4 / 53       |                                     | 1.1 | 1.1 |     | .1  | .9  |    | .1  | .3 |    | .3 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            | 31       | 31       |           | 40 |    |    |
| 2 / 51       |                                     | 1.1 | 1.1 |     | .6  | 1.1 |    | .4  | .1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            | 36       | 36       |           | 25 |    |    |
| 5 / 49       |                                     | 1.4 |     | .4  | .9  | .8  |    | .1  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          | 28       | 28        |    | 23 |    |
| 4 / 47       | .3                                  | 2.0 |     | .4  | .8  | .5  |    | .6  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          | 36       | 36        |    | 25 |    |
| 4 / 45       | .1                                  | 2.6 |     | .8  | 1.0 | 1.5 |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          | 48       | 48        |    | 42 |    |
| 4 / 43       | .3                                  | 2.4 | 1.1 | 1.9 |     | .9  |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          | 52       | 52        |    | 50 |    |
| 2 / 41       | .1                                  | 1.9 | 1.1 | 1.1 |     | .5  |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          | 38       | 38        |    | 52 |    |
| 4 / 39       | .5                                  | 3.0 | 2.0 | 1.9 |     | .6  |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          | 64       | 64        |    | 42 |    |
| 36 / 37      |                                     | 2.8 | 2.1 | 1.0 |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          | 47        | 47 |    | 61 |
| 36 / 35      | .3                                  | 4.9 | 2.5 | .8  |     | .3  |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          | 69        | 69 |    | 55 |
| 3 / 33       | 1.2                                 | 2.8 | 2.3 | .1  |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          | 49        | 49 |    | 90 |
| 12 / 31      | .1                                  | 3.3 | 1.9 | .5  |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          | 46        | 46 |    | 52 |
| 3 / 29       | .3                                  | 1.9 | 1.6 | .6  |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          | 35        | 35 |    | 50 |
| 2 / 27       |                                     | 2.6 | .4  |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          | 24        | 24 |    | 25 |
| 2 / 25       |                                     | 1.4 | .8  |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          | 17        | 17 |    | 43 |
| 2 / 23       |                                     | 1.1 | .4  |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          | 12        | 12 |    | 19 |
| 2 / 21       | .5                                  | .5  |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          | 8         | 8  |    | 16 |
| 1 / 19       | .3                                  | .1  |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          | 3         | 3  |    | 6  |
| 1 / 17       |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    | 26 |    |
| 1 / 15       |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    | 9  |    |
| 1 / 13       |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    | 16 |    |
| 1 / 11       |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    | 4  |    |
| TOTAL        | 3.839.523.614.310.4 3.5 3.0 1.9     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 797 797 797 |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 797 797 797 |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |
|              |                                     |     |     |     |     |     |    |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |             |            |          |          |           |    |    |    |



## PSYCHROMETRIC SUMMARY

**YEARS**

APR  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|--|--|--|--|--|--|--|--|--|-------|--|-------|--|
|              | 0                                   | 1-2  | 3-4  | 5-6  | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 69       |                                     |      |      |      |     |      | .1    | .1    |       | .4    |       |       |       |       |       |       |      | 5         | 5        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6 / 67       |                                     |      |      |      | .1  | .3   | .8    |       |       |       |       |       |       |       |       |       |      | 8         | 8        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6 / 65       |                                     |      | .1   | .3   | .8  |      |       |       |       |       |       |       |       |       |       |       |      | 9         | 9        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 63       |                                     |      | .1   | 1.4  | 1.7 | .5   | .5    |       |       |       |       |       |       |       |       |       |      | 28        | 28       |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 61       |                                     |      | .4   | 1.3  | .4  |      | .5    | .1    |       |       |       |       |       |       |       |       |      | 21        | 21       | 3        |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 59       |                                     | 1.3  | 1.3  | .6   | .6  | .1   | .1    | .1    |       |       |       |       |       |       |       |       |      | 33        | 33       | 12       |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 57       |                                     | .9   | .6   | .5   | .5  |      |       | .3    |       |       |       |       |       |       |       |       |      | 22        | 22       | 35       | 9         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 55       | .1                                  | .6   | .4   | .4   | .8  | .4   | .6    |       |       |       |       |       |       |       |       |       |      | 26        | 26       | 35       | 23        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 53       |                                     | .3   | .4   | .1   | .1  | .8   | .3    |       |       |       |       |       |       |       |       |       |      | 15        | 15       | 24       | 22        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 51       |                                     | 1.0  | .4   | .3   | .4  | .8   |       |       |       |       |       |       |       |       |       |       |      | 22        | 22       | 24       | 28        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 49       |                                     | .5   | 1.9  |      | .8  | .3   |       |       |       |       |       |       |       |       |       |       |      | 27        | 27       | 16       | 19        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 47       |                                     | 1.1  | 1.4  | .6   | .8  | .3   |       |       |       |       |       |       |       |       |       |       |      | 33        | 33       | 19       | 21        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 45       | .1                                  | 3.3  | 1.3  | 1.6  | .9  |      |       |       |       |       |       |       |       |       |       |       |      | 57        | 57       | 44       | 17        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 43       | .1                                  | 2.3  | .8   | 2.0  | .5  | .1   |       |       |       |       |       |       |       |       |       |       |      | 46        | 46       | 51       | 23        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 41       | .3                                  | 3.4  | 2.4  | 2.0  | .4  |      |       |       |       |       |       |       |       |       |       |       |      | 67        | 67       | 49       | 51        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 39       | .8                                  | 4.3  | 1.8  | 1.4  | .3  |      |       |       |       |       |       |       |       |       |       |       |      | 67        | 67       | 62       | 48        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 3 / 37       | .1                                  | 2.6  | 2.7  | 1.0  |     |      |       |       |       |       |       |       |       |       |       |       |      | 46        | 46       | 77       | 39        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 35       | .3                                  | 4.3  | 2.8  | .9   |     |      |       |       |       |       |       |       |       |       |       |       |      | 65        | 65       | 56       | 43        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 3 / 33       | .4                                  | 4.1  | 2.5  | .4   |     |      |       |       |       |       |       |       |       |       |       |       |      | 59        | 60       | 75       | 54        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 31       | .1                                  | 3.7  | 2.4  | .3   |     |      |       |       |       |       |       |       |       |       |       |       |      | 46        | 46       | 60       | 85        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 29       | .3                                  | 2.5  | 1.1  |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 31        | 31       | 48       | 64        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 27       | .1                                  | 1.9  | .3   |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 18        | 18       | 37       | 61        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 25       | .1                                  | 2.1  | .4   |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 21        | 21       | 25       | 49        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 23       |                                     | 1.5  | .3   |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 14        | 14       | 22       | 30        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 21       | .1                                  | .9   |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 8         | 8        | 12       | 40        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 19       | .1                                  | .4   |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 4         | 4        | 10       | 36        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 17       |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          | 2        | 18        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 15       |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 8         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 13       |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 5         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 11       |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 4         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 1 / 9        |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 1         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| TOTAL        | 3.7                                 | 42.1 | 24.7 | 15.0 | 8.1 | 3.8  | 2.4   | .5    |       | .4    |       |       |       |       |       |       |      | 798       | 799      | 798      | 798       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |

| Element (X) | $\Sigma x^1$ | $\Sigma x$ | $\bar{x}$ | $s_x$ | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        | Total |
|-------------|--------------|------------|-----------|-------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|
| Rel. Hum.   | 4457362      | 58476      | 73.314705 |       | 798      | ≤ 0 F                              | ≤ 32 F | ≤ 67 F | ≤ 73 F | ≤ 80 F | ≥ 93 F |       |
| Dry Bulb    | 1554325      | 34085      | 42.711210 |       | 799      |                                    | 16.0   | 1.5    |        |        |        | 90    |
| Wet Bulb    | 1289708      | 31116      | 39.09792  |       | 798      |                                    | 24.4   |        |        |        |        | 90    |
| Dew Point   | 1016151      | 27229      | 34.110451 |       | 798      |                                    | 45.2   |        |        |        |        | 99    |





## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 2 0900-1100  
HOURS (L. S. T.)

[illegible]

**JSAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

72-25  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81

YEARS

APR  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**APR**  
1994

PAGE 1 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

APR  
MONTH

[illegible]

**USAFETAC**  
FORM  
JUL 64  
0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

APR  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

[illegible]





## PSYCHROMETRIC SUMMARY

|         |                   |
|---------|-------------------|
| 725253  | YOUNGSTOWN MAP OH |
| STATION | STATION NAME      |

73-81

**YEARS**

APR  
MONTH

PAGE 2 2100-2300  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

APR  
MONTH

PAGE 2

**ALL**  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | TOTAL |           | TOTAL    |          |           |     |
|--------------|-------------------------------------|------|------|------|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-----------|----------|----------|-----------|-----|
|              | 0                                   | 1    | 2    | 3    | 4   | 5   | 6   | 7   | 8   | 9   | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31    | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |     |
| 1 / 19       | .1                                  | .1   |      |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 13       | 13       | 30        | 270 |
| 1 / 17       | .0                                  |      |      |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 1         | 1        | 6        | 141       |     |
| 1 / 15       |                                     |      |      |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 86        |     |
| 1 / 13       |                                     |      |      |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 58        |     |
| 1 / 11       |                                     |      |      |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 33        |     |
| 1 / 9        |                                     |      |      |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 7         |     |
| 1 / 7        |                                     |      |      |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           |          |          | 2         |     |
| TOTAL        | 2.226                               | 6.21 | 4.14 | 9.11 | 1.1 | 8.4 | 6.4 | 3.9 | 2.4 | 1.7 | .9 | .3 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       | 6362      |          | 6356     |           |     |
|              |                                     |      |      |      |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |           | 6356     |          | 6356      |     |

| Element (X) | $\Sigma X^2$ | $\Sigma X$ | $\bar{X}$  | $\sigma_x$ | No. Obs. | Mean No. of Hours with Temperature |                   |                   |                   |                   |       |
|-------------|--------------|------------|------------|------------|----------|------------------------------------|-------------------|-------------------|-------------------|-------------------|-------|
| Rel. Hum.   | 28830681     | 410553     | 64.619.073 |            | 6356     | $\leq 32^\circ F$                  | $\geq 67^\circ F$ | $\geq 73^\circ F$ | $\geq 80^\circ F$ | $\geq 93^\circ F$ | Total |
| Dry Bulb    | 15488568     | 303240     | 47.712.755 |            | 6362     | 83.3                               | 55.2              | 23.5              | 5.3               |                   | 720   |
| Wet Bulb    | 11832953     | 266505     | 41.910.179 |            | 6356     | 132.2                              |                   |                   |                   |                   | 720   |
| Dew Point   | 8544775      | 222227     | 35.011.043 |            | 6356     | 333.3                              |                   |                   |                   |                   | 720   |

## PSYCHROMETRIC SUMMARY

YEARS

PAGE 1 MAY MONTH 0000-0200 HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |       |       |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |  |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|-------|-------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|-----------|----------|----------|-----------|--|--|--|--|--|--|--|--|--|--|-------|--|-------|--|
|              | 0                                   | 1-2   | 3-4   | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | 31 | D.B. W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 47 / 73      |                                     |       |       | .1  | .3  |      |       |       |       |       |       |       |       |       |       |       |    | 3         | 3        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 47 / 71      |                                     |       |       | .4  | .1  |      |       |       | .1    |       |       |       |       |       |       |       |    | 5         | 5        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 67 / 69      |                                     |       | .4    | .3  | .4  | .4   |       | .3    |       |       |       |       |       |       |       |       |    | 13        | 13       |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 67 / 67      |                                     |       | .8    | .8  | .8  | .5   |       |       | .4    |       |       |       |       |       |       |       |    | 25        | 25       | 1        |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 67 / 65      |                                     | .8    | .9    | .5  | .5  | .1   | .1    |       |       |       |       |       |       |       |       |       |    | 23        | 23       | 10       |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 47 / 63      |                                     | 2.3   | 1.2   | .6  | .5  | .9   | .4    | .1    |       |       |       |       |       |       |       |       |    | 47        | 47       | 22       | 12        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 77 / 61      |                                     | 1.2   | .9    | .6  | .8  | .3   | .4    | .1    |       |       |       |       |       |       |       |       |    | 33        | 33       | 31       | 19        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 77 / 59      | .3                                  | 2.1   | 1.7   | .5  | .5  | .5   | .4    |       |       |       |       |       |       |       |       |       |    | 46        | 46       | 38       | 28        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 77 / 57      | .8                                  | 4.0   | 3.2   | 1.3 | .3  | .4   | .5    | .4    |       |       |       |       |       |       |       |       |    | 84        | 84       | 46       | 41        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 57 / 55      | .3                                  | 1.8   | 1.2   | .6  | 1.3 | .5   | .1    |       |       |       |       |       |       |       |       |       |    | 45        | 45       | 52       | 43        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 47 / 53      | .3                                  | 1.8   | 1.6   | 1.2 | .6  | .3   |       |       |       |       |       |       |       |       |       |       |    | 44        | 44       | 67       | 42        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 27 / 51      | .4                                  | 2.7   | 2.5   | 1.7 | .3  | .1   | .1    |       |       |       |       |       |       |       |       |       |    | 60        | 60       | 53       | 51        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 57 / 49      | .3                                  | 3.5   | 2.3   | 1.4 | .3  | .4   |       |       |       |       |       |       |       |       |       |       |    | 63        | 63       | 48       | 51        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 47 / 47      |                                     | 2.9   | .4    | 1.0 | .5  |      |       |       |       |       |       |       |       |       |       |       |    | 37        | 37       | 72       | 53        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 47 / 45      |                                     | 2.1   | 2.6   | 1.6 | .6  |      |       |       |       |       |       |       |       |       |       |       |    | 53        | 53       | 65       | 41        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 47 / 43      | .4                                  | 2.2   | 1.6   | .9  |     |      |       |       |       |       |       |       |       |       |       |       |    | 39        | 39       | 31       | 45        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 27 / 41      |                                     | 2.6   | .9    | .5  |     |      |       |       |       |       |       |       |       |       |       |       |    | 31        | 31       | 55       | 43        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 47 / 39      | .1                                  | 1.6   | 2.3   | 1.0 | .3  |      |       |       |       |       |       |       |       |       |       |       |    | 41        | 41       | 47       | 46        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 37 / 37      | .4                                  | .6    | 1.6   | .5  |     |      |       |       |       |       |       |       |       |       |       |       |    | 24        | 24       | 32       | 53        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 77 / 35      | .4                                  | 1.9   | 1.7   | .3  |     |      |       |       |       |       |       |       |       |       |       |       |    | 28        | 28       | 32       | 48        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 37 / 33      |                                     | 1.0   | 1.2   |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 17        | 17       | 37       | 25        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 27 / 31      |                                     | .4    | .5    |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 7         | 7        | 17       | 46        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 77 / 29      |                                     |       |       |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          | 9        | 30        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 27 / 27      |                                     |       | .3    |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 2         | 2        | 3        | 21        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 77 / 25      |                                     |       | .1    |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 1         | 1        |          | 16        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 24 / 23      |                                     |       |       |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          | 3        | 4         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 27 / 21      |                                     |       |       |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          | 7         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 77 / 19      |                                     |       |       |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          | 3         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 17 / 15      |                                     |       |       |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          | 1         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 17 / 13      |                                     |       |       |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          | 2         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| TOTAL        | 3.535                               | 5.529 | 11.60 | 8.0 | 4.4 | 2.1  | .9    | .5    |       |       |       |       |       |       |       |       |    | 771       | 771      | 771      |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |       |       |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 771       |          | 771      |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |

| Element (X) | $\Sigma x'$ | $\Sigma x$ | $\bar{x}$ | $s_x$  | No. Obs. | Mean No. of Hours with Temperature |                         |                         |                         |                         |                         |       |
|-------------|-------------|------------|-----------|--------|----------|------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------|
| Rel. Hum.   | 4646225     | 58693      | 76.1      | 15.212 | 771      | $\leq 0^\circ\text{F}$             | $\leq 32^\circ\text{F}$ | $\leq 67^\circ\text{F}$ | $\leq 72^\circ\text{F}$ | $\leq 80^\circ\text{F}$ | $\leq 93^\circ\text{F}$ | Total |
| Dry Bulb    | 2133790     | 39868      | 51.7      | 9.639  | 771      |                                    | 1.2                     | 5.5                     | .4                      |                         |                         | 93    |
| Wet Bulb    | 1829282     | 36906      | 47.9      | 9.022  | 771      |                                    | 3.9                     | .1                      |                         |                         |                         | 93    |
| Dew Point   | 1569300     | 33852      | 43.9      | 10.381 | 771      |                                    | 15.7                    |                         |                         |                         |                         | 93    |

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 1 0300-0500  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|------|------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----------|----------|-----------|-----|--|--|--|--|--|--|--|--|--|--------------------|-------|--|--|
|              | 0                                   | 1-2  | 3-4  | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | = 31 | Dry Bulb | Wet Bulb | Dew Point |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| / 71         |                                     |      | .3   | .1  |     |      |       |       |       |       |       |       |       |       |       |       |      | 3        | 3        |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| / 69         |                                     |      | .1   | .1  |     |      | .1    | .3    |       |       |       |       |       |       |       |       |      | 5        | 5        |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 5 / 67       |                                     |      | .7   | .4  | .1  | .1   |       | .1    |       |       |       |       |       |       |       |       |      | 11       | 11       | 2         |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 6 / 65       |                                     | .5   | 1.4  | .7  | .3  | .3   |       | .3    |       |       |       |       |       |       |       |       |      | 26       | 26       | 2         |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 4 / 63       |                                     | 2.1  | 1.2  | .9  | .3  | .1   | .1    |       |       |       |       |       |       |       |       |       |      | 36       | 36       | 17        | 6   |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 2 / 61       | .1                                  | 1.6  | .4   | .8  |     | .5   |       |       |       |       |       |       |       |       |       |       |      | 26       | 26       | 32        | 22  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| / 59         | .4                                  | 3.3  | 2.5  | .9  | .7  | .5   | .4    |       |       |       |       |       |       |       |       |       |      | 66       | 66       | 32        | 30  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| / 57         | .7                                  | 3.3  | 2.2  | .8  | .3  | .7   | .3    |       |       |       |       |       |       |       |       |       |      | 62       | 62       | 51        | 32  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 5 / 55       | .3                                  | .7   | 1.6  | 1.2 | .8  | .3   |       |       |       |       |       |       |       |       |       |       |      | 36       | 36       | 50        | 46  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 4 / 53       | .8                                  | 3.3  | 1.3  | .9  | 1.0 | .3   |       |       |       |       |       |       |       |       |       |       |      | 58       | 58       | 41        | 36  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 2 / 51       | .1                                  | 4.8  | 1.2  | .8  | .5  | .1   |       |       |       |       |       |       |       |       |       |       |      | 58       | 58       | 59        | 43  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 5 / 49       |                                     | 3.4  | 2.1  | .4  | .7  |      |       |       |       |       |       |       |       |       |       |       |      | 50       | 50       | 58        | 54  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 4 / 47       | .4                                  | 3.0  | .8   | .4  | .5  |      |       |       |       |       |       |       |       |       |       |       |      | 39       | 39       | 61        | 55  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 4 / 45       |                                     | 2.6  | 1.3  | 1.2 | .5  |      |       |       |       |       |       |       |       |       |       |       |      | 43       | 43       | 50        | 48  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 4 / 43       | .4                                  | 2.8  | 1.6  | 1.0 | .3  |      |       |       |       |       |       |       |       |       |       |       |      | 46       | 46       | 39        | 30  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 2 / 41       | .1                                  | 2.2  | 1.7  | .4  |     |      |       |       |       |       |       |       |       |       |       |       |      | 34       | 34       | 43        | 52  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 4 / 39       | 1.7                                 | 2.9  | 2.8  | .8  | .1  |      |       |       |       |       |       |       |       |       |       |       |      | 58       | 59       | 56        | 42  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 3 / 37       | .1                                  | 2.0  | 1.0  | .5  |     |      |       |       |       |       |       |       |       |       |       |       |      | 28       | 28       | 46        | 46  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| / 35         | .3                                  | 2.5  | 2.0  |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 36       | 36       | 35        | 39  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 3 / 33       | .3                                  | 2.2  | .5   |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 23       | 23       | 44        | 40  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 2 / 31       | .1                                  | 1.4  | .4   |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 15       | 15       | 26        | 55  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| / 29         |                                     | .1   | .3   |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 3        | 3        | 14        | 34  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| / 27         |                                     | .1   |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 1        | 1        | 2         | 21  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| / 25         |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          | 3         | 11  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 2 / 23       |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           | 13  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 2 / 21       |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           | 4   |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| / 19         |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           | 3   |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| / 17         |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           | 1   |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| TOTAL        | 5.144                               | 8.27 | 3.12 | 3   | 6.0 | 2.9  | .9    | .7    |       |       |       |       |       |       |       |       |      |          | 763      | 764       | 763 |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          | 763      | 763       |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |          |          |           |     |  |  |  |  |  |  |  |  |  |                    |       |  |  |

## PSYCHROMETRIC SUMMARY

PAGE 1 0600-0800  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

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| 72°25'  | YOUNGSTOWN MAP OH |
| STATION | STATION NAME      |

73-81

YEARS

MAY  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

MAY

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HOURS (L. S. T.)

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## PSYCHROMETRIC SUMMARY

MAY  
MONTH

HOURS (L, S, T.)

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## PSYCHROMETRIC SUMMARY

**YEARS**

**MAY**  
**MONTH**

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**USAFETAC** FORM 0-26-5 (OL A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

YEARS

MAY  
MONTH

PAGE 1 1500-1700  
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0-26-5 (OL A)

**USAFETAC**

## PSYCHROMETRIC SUMMARY

YEARS

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## PSYCHROMETRIC SUMMARY

MAY  
MONTH

HOURS (L. S. T.)

0-26-5 (OL A)

**USAFETAC**

## PSYCHROMETRIC SUMMARY

YEARS

**MAY**  
**MONTH**

PAGE 2      1800-2000  
HOURS (L. S. T.)

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## PSYCHROMETRIC SUMMARY

73-81

YEARS

MAY  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|-------|--|-------|--|
|              | 0                                   | 1-2  | 3-4  | 5-6  | 7-8  | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |       |  |       |  |
| 76 / 75      |                                     |      |      |      | .3   | .3   |       |       |       |       |       |       |       |       |       |       |      | 4         | 4        |          |           |       |  |       |  |
| 74 / 73      |                                     |      |      | .6   | .4   | .1   |       | .3    |       |       |       |       |       |       |       |       |      | 11        | 11       |          |           |       |  |       |  |
| 72 / 71      |                                     | .1   | .5   | .6   | .6   | .1   | .1    |       |       |       |       |       |       |       |       |       |      | 17        | 17       |          |           |       |  |       |  |
| 70 / 69      |                                     | .1   | .5   | 1.0  | 1.0  |      | .3    |       |       |       |       |       |       |       |       |       |      | 23        | 23       | 1        |           |       |  |       |  |
| 68 / 67      |                                     | .5   | 1.5  | .6   | .3   | .3   | .5    | .1    |       |       |       |       |       |       |       |       |      | 30        | 30       | 8        |           |       |  |       |  |
| 66 / 65      |                                     | .1   | 2.7  | .4   | .3   | .4   | .6    | .4    |       |       |       |       |       |       |       |       |      | 38        | 38       | 14       | 3         |       |  |       |  |
| 64 / 63      |                                     | 1.3  | 1.7  | 1.8  | .6   | .9   | .6    | .1    |       |       |       |       |       |       |       |       |      | 55        | 56       | 34       | 18        |       |  |       |  |
| 62 / 61      |                                     | 1.1  | 2.3  | 1.0  | 1.5  | .6   | .1    | .1    |       |       |       |       |       |       |       |       |      | 54        | 54       | 43       | 21        |       |  |       |  |
| 60 / 59      |                                     | 2.7  | 1.3  | .9   | .9   | .6   | .4    | .6    |       |       |       |       |       |       |       |       |      | 58        | 58       | 44       | 34        |       |  |       |  |
| 58 / 57      |                                     | 3.2  | 1.8  | 1.8  | .6   | .6   | .4    | .1    |       |       |       |       |       |       |       |       |      | 67        | 67       | 62       | 52        |       |  |       |  |
| 56 / 55      | .3                                  | 2.2  | 1.1  | .6   | 1.4  | .3   | .6    |       |       |       |       |       |       |       |       |       |      | 51        | 51       | 57       | 60        |       |  |       |  |
| 54 / 53      |                                     | 2.2  | 1.8  | 1.5  | 1.8  | .1   | .3    |       |       |       |       |       |       |       |       |       |      | 60        | 60       | 61       | 45        |       |  |       |  |
| 52 / 51      |                                     | 2.0  | 1.7  | 1.4  | 1.1  | .4   |       |       |       |       |       |       |       |       |       |       |      | 52        | 52       | 60       | 37        |       |  |       |  |
| 50 / 49      |                                     | 1.7  | 3.4  | 1.1  | 1.1  | .4   |       |       |       |       |       |       |       |       |       |       |      | 61        | 61       | 52       | 49        |       |  |       |  |
| 48 / 47      |                                     | 1.5  | 1.0  | 1.9  | .3   |      |       |       |       |       |       |       |       |       |       |       |      | 37        | 37       | 64       | 55        |       |  |       |  |
| 46 / 45      |                                     | 1.9  | 1.4  | .8   | .8   | .1   |       |       |       |       |       |       |       |       |       |       |      | 39        | 39       | 64       | 43        |       |  |       |  |
| 44 / 43      |                                     | 1.8  | 1.1  | .8   | .4   | .1   |       |       |       |       |       |       |       |       |       |       |      | 33        | 33       | 47       | 45        |       |  |       |  |
| 42 / 41      |                                     | .6   | 1.8  | 1.1  | .5   |      |       |       |       |       |       |       |       |       |       |       |      | 32        | 32       | 49       | 54        |       |  |       |  |
| 40 / 39      |                                     | .6   | 1.7  | .6   | .3   |      |       |       |       |       |       |       |       |       |       |       |      | 25        | 25       | 25       | 44        |       |  |       |  |
| 38 / 37      |                                     | .4   | 1.5  | .6   |      |      |       |       |       |       |       |       |       |       |       |       |      | 20        | 20       | 33       | 46        |       |  |       |  |
| 36 / 35      |                                     | .6   | .8   | .3   |      |      |       |       |       |       |       |       |       |       |       |       |      | 13        | 13       | 25       | 39        |       |  |       |  |
| 34 / 33      | .1                                  | .1   | .1   |      |      |      |       |       |       |       |       |       |       |       |       |       |      | 3         | 3        | 32       | 26        |       |  |       |  |
| 32 / 31      |                                     | .1   | .1   |      |      |      |       |       |       |       |       |       |       |       |       |       |      | 2         | 2        | 6        | 43        |       |  |       |  |
| 30 / 29      |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          | 3        | 19        |       |  |       |  |
| 28 / 27      |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          | 1        | 19        |       |  |       |  |
| 26 / 25      |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 17        |       |  |       |  |
| 24 / 23      |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 7         |       |  |       |  |
| 22 / 21      |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 3         |       |  |       |  |
| 20 / 19      |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 6         |       |  |       |  |
| TOTAL        |                                     | .424 | .729 | .019 | .013 | .8   | 7.1   | 3.8   | 1.5   | .6    |       |       |       |       |       |       |      | 785       | 786      | 785      | 785       |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |  |       |  |

## PSYCHROMETRIC SUMMARY

**MAY**  
**MONTH**

ALL  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

|         |                   |
|---------|-------------------|
| 725250  | YOUNGSTOWN MAP OH |
| STATION | STATION NAME      |

73-81

YEARS

MAY  
MONTH

PAGE 2

ALL

HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**JUN**  
**MONTH**

PAGE 1 0000-0200  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**JUN**  
**MONTH**

PAGE 1 0300-0500  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  | TOTAL |  |  |  |
|--------------|-------------------------------------|------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|--|--|--|--|--|--|--|--|--|-------|--|--|--|
|              | 0                                   | 1-2  | 3-4  | 5-6  | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 6 / 75       |                                     |      |      |      | .4  |      |       |       |       |       |       |       |       |       |       |       |      | 3         | 3        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 4 / 73       |                                     |      | .3   | .3   |     |      |       |       |       |       |       |       |       |       |       |       |      | 4         | 4        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 1 / 71       |                                     | .1   | 1.6  | .9   |     |      |       |       |       |       |       |       |       |       |       |       |      | 18        | 18       |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 1 / 69       |                                     | 1.3  | 1.6  |      | .3  | .1   |       |       |       |       |       |       |       |       |       |       |      | 23        | 23       | 9        | 2         |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 6 / 67       | .1                                  | 3.9  | 4.3  | 1.0  | .4  | .1   |       |       |       |       |       |       |       |       |       |       |      | 69        | 69       | 38       | 18        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 6 / 65       | .3                                  | 3.3  | 2.7  | 1.1  | 1.0 | .1   |       |       |       |       |       |       |       |       |       |       |      | 60        | 60       | 40       | 45        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 4 / 63       |                                     | 5.6  | 3.3  | 1.7  | .9  |      |       |       |       |       |       |       |       |       |       |       |      | 80        | 80       | 63       | 44        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 1 / 61       | .1                                  | 2.4  | 3.6  | 1.9  | .4  |      | .1    |       |       |       |       |       |       |       |       |       |      | 60        | 60       | 65       | 57        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 1 / 59       | .3                                  | 4.6  | 3.1  | 1.0  | .1  |      |       |       |       |       |       |       |       |       |       |       |      | 64        | 64       | 50       | 43        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 1 / 57       | .3                                  | 4.3  | 1.3  | .7   | .3  |      |       |       |       |       |       |       |       |       |       |       |      | 48        | 48       | 82       | 60        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 5 / 55       | .4                                  | 4.1  | 2.3  | .7   |     |      |       |       |       |       |       |       |       |       |       |       |      | 53        | 53       | 65       | 69        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 4 / 53       | .1                                  | 3.6  | 3.0  | .6   |     |      |       |       |       |       |       |       |       |       |       |       |      | 51        | 51       | 56       | 64        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 2 / 51       | .1                                  | 3.1  | 2.3  | .1   |     |      |       |       |       |       |       |       |       |       |       |       |      | 40        | 41       | 48       | 50        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 5 / 49       |                                     | 3.7  | .9   |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 32        | 32       | 46       | 55        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 1 / 47       | .1                                  | 1.7  | 1.4  | .4   |     |      |       |       |       |       |       |       |       |       |       |       |      | 26        | 26       | 44       | 46        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 4 / 45       | .6                                  | 1.4  | .1   | .1   |     |      |       |       |       |       |       |       |       |       |       |       |      | 16        | 16       | 23       | 51        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 4 / 43       | .1                                  | 1.4  | .7   |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 16        | 16       | 21       | 24        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 3 / 41       | .1                                  | .6   | .6   |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 9         | 9        | 9        | 15        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 4 / 39       | .7                                  | 1.1  | .1   |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 14        | 14       | 18       | 15        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 3 / 37       | .6                                  | 1.4  |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 14        | 14       | 17       | 13        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 7 / 35       | .1                                  |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 1         | 1        | 7        | 17        |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 3 / 33       |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 9         |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| 2 / 31       |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 4         |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
| TOTAL        | 4.3                                 | 47.6 | 33.1 | 10.6 | 3.9 | .4   | .1    |       |       |       |       |       |       |       |       |       |      | 701       | 702      | 701      | 701       |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |  |  |

## PSYCHROMETRIC SUMMARY

73-81

YEARS

**JUN**  
MON 14

PAGE 1 C600-080C

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

7225 YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81  
YEARS

YEARS

JUN  
MONTH

PAGE 1 0900-1100  
HOURS (L. S. T.)

| Temp<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |      |      |      |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |           |          | TOTAL    |           | TOTAL |  |
|-------------|-------------------------------------|-----|------|------|------|------|------|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----------|----------|----------|-----------|-------|--|
|             | 0                                   | 1   | 2    | 3    | 4    | 5    | 6    | 7   | 8   | 9   | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30  | 31  | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |       |  |
| 67 85       |                                     |     |      |      |      |      |      | .1  | .4  | .1  | .1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     | 6         | 6        |          |           |       |  |
| 47 83       |                                     |     |      |      |      |      |      | .1  | .5  | .5  | .1 | .1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 11  | 11        |          |          |           |       |  |
| 77 81       |                                     |     |      |      |      |      |      | 1.0 | .9  | 1.1 | .5 | .3 | .1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 31  | 31        |          |          |           |       |  |
| 79 79       |                                     |     |      | .1   | .1   | 1.3  | 1.4  | 1.3 | 1.3 | .3  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 45  | 45        |          |          |           |       |  |
| 77 77       |                                     |     | .1   | .6   | 2.3  | 2.5  | 2.5  | .6  |     | .1  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 70  | 70  | 2         |          |          |           |       |  |
| 75 75       |                                     |     | .3   | 1.3  | 2.9  | 1.9  | 1.4  | 1.3 | .3  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 73  | 74  | 5         | 2        |          |           |       |  |
| 73 73       |                                     | .1  | .5   | 1.8  | 1.7  | 2.4  | 1.0  | .9  | .6  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 71  | 71  | 26        | 1        |          |           |       |  |
| 71 71       |                                     | .6  | 1.4  | .9   | 2.0  | 2.3  | 1.4  | 1.0 | .1  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 77  | 77  | 32        | 7        |          |           |       |  |
| 69 69       |                                     | 1.8 | 2.4  | 1.8  | 2.5  | 2.0  | 1.5  | .8  | .3  |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 103 | 103 | 64        | 28       |          |           |       |  |
| 67 67       |                                     | .5  | 2.3  | 1.4  | 1.3  | 1.8  | .8   | .4  |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 66  | 66  | 93        | 57       |          |           |       |  |
| 65 65       |                                     | .9  | 2.2  | 1.3  | 1.7  | 1.1  | .5   | .5  |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 64  | 64  | 96        | 54       |          |           |       |  |
| 63 63       |                                     | 1.3 | 1.3  | 1.3  | 1.3  | .8   | .6   | .3  |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49  | 49  | 95        | 71       |          |           |       |  |
| 61 61       | .1                                  | .3  | .4   | 1.4  | .6   | .5   | .3   | .1  |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 29  | 29  | 89        | 73       |          |           |       |  |
| 59 59       |                                     | .6  | 1.7  | .5   | .5   | .6   | .3   |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 28  | 28  | 74        | 79       |          |           |       |  |
| 57 57       |                                     | .5  | .3   | .5   | .6   | .5   | .1   |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 20  | 20  | 59        | 85       |          |           |       |  |
| 55 55       |                                     | .6  | .6   | .3   | .5   |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 16  | 16  | 47        | 53       |          |           |       |  |
| 53 53       |                                     | .3  | .5   | .1   | .4   |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 10  | 10  | 33        | 49       |          |           |       |  |
| 51 51       |                                     | .1  | .1   | .3   | .1   |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 5   | 5   | 23        | 59       |          |           |       |  |
| 49 49       |                                     | .5  | .3   | .4   |      |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 9   | 9   | 20        | 42       |          |           |       |  |
| 47 47       |                                     | .3  | .1   |      |      |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 3   | 3   | 17        | 37       |          |           |       |  |
| 45 45       |                                     |     |      |      |      |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |           | 8        | 29       |           |       |  |
| 43 43       |                                     |     |      |      |      |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     | 3         | 14       |          |           |       |  |
| 41 41       |                                     |     |      |      |      |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |           |          | 17       |           |       |  |
| 39 39       |                                     |     |      |      |      |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |           |          | 14       |           |       |  |
| 37 37       |                                     |     |      |      |      |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |           |          | 5        |           |       |  |
| 35 35       |                                     |     |      |      |      |      |      |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |           |          | 10       |           |       |  |
| TOTAL       | .1                                  | 8.1 | 13.9 | 13.6 | 21.0 | 19.7 | 13.5 | 7.9 | 1.9 | .3  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 786 | 787 | 786       | 786      |          |           |       |  |

USAFETAC FORM 0-26-5 (O.L.A.) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

| Element (X) | $\Sigma x'$ | $\Sigma x$ | $\bar{x}$ | $s^2$  | No. Obs. | Mean No. of Hours with Temperature |                   |                   |                   |                   |                   | Total |
|-------------|-------------|------------|-----------|--------|----------|------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------|
| Rel. Hum.   | 3461862     | 50954      | 64.8      | 14.217 | 786      | $\leq 0^\circ F$                   | $\leq 32^\circ F$ | $\geq 67^\circ F$ | $\geq 73^\circ F$ | $\geq 80^\circ F$ | $\geq 93^\circ F$ | 90    |
| Dry Bulb    | 3894746     | 55052      | 70.0      | 7.462  | 787      |                                    |                   | 63.4              | 35.2              | 7.9               |                   | 90    |
| Wet Bulb    | 3076497     | 48905      | 62.2      | 6.545  | 786      |                                    |                   | 25.4              | 3.8               |                   |                   | 90    |
| Dew Point   | 2603860     | 44794      | 57.0      | 8.065  | 786      |                                    |                   | 10.9              | .3                |                   |                   | 90    |

## PSYCHROMETRIC SUMMARY

73-81

**JUN**  
MONTH

PAGE 1 1200-1400  
HOURS (L.S.T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-81

YEARS

JUN  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

JUN  
MON 12

PAGE 1 1800-2000  
HOURS P. S. T.

[illegible]



## PSYCHROMETRIC SUMMARY

|         |                   |
|---------|-------------------|
| 17-25   | YOUNGSTOWN MAP OH |
| STATION | STATION NAME      |

73-81

**YEARS**

JUN  
MONTH

PAGE 1

**2100-2300**  
HOURS (L, S, F, I)

| Temp<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|-------------|-------------------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|--|--|--|--|--|--|--|--|--|-------|--|-------|--|
|             | 0                                   | 1-2  | 3-4  | 5-6  | 7-8  | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | = 31 | D.B.-W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / -1        |                                     |      |      |      |      | .1   |       |       |       |       |       |       |       |       |       |       |      | 1         | 1        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 79        |                                     |      |      |      | .3   | .3   |       |       |       |       |       |       |       |       |       |       |      | 4         | 4        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 7 / 77      |                                     |      |      | .4   | .8   | .4   | .1    |       |       |       |       |       |       |       |       |       |      | 13        | 13       |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6/ 75       |                                     |      | .3   | 1.2  | .8   | .4   |       |       |       |       |       |       |       |       |       |       |      | 18        | 18       |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4/ 73       |                                     | .3   | .8   | 1.8  | .5   | 1.2  | .3    |       |       |       |       |       |       |       |       |       |      | 36        | 36       | 2        | 1         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 71        |                                     | .8   | 1.2  | 2.2  | 1.0  | 1.2  |       |       |       |       |       |       |       |       |       |       |      | 47        | 47       | 13       |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 69        |                                     | .5   | 3.0  | 2.7  | 1.9  | .4   | .4    |       |       |       |       |       |       |       |       |       |      | 61        | 61       | 71       | 11        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 67      |                                     | 1.8  | 4.0  | 1.8  | 1.4  | 1.1  | .3    |       |       |       |       |       |       |       |       |       |      | 75        | 75       | 37       | 26        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6/ 65       |                                     | 4.1  | 3.0  | 2.2  | 1.1  | .5   |       |       |       |       |       |       |       |       |       |       |      | 80        | 80       | 74       | 48        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4/ 63       |                                     | 4.1  | 2.6  | 1.5  | 1.9  |      |       |       |       |       |       |       |       |       |       |       |      | 74        | 75       | 94       | 62        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 61        |                                     | 2.7  | 1.6  | 2.6  | 1.5  | .4   |       |       |       |       |       |       |       |       |       |       |      | 65        | 65       | 71       | 72        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 59        | .1                                  | 2.2  | 2.7  | 2.3  | .7   | .1   |       |       |       |       |       |       |       |       |       |       |      | 60        | 60       | 71       | 66        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 57        |                                     | 1.9  | 1.6  | 1.8  | .5   | .1   |       |       |       |       |       |       |       |       |       |       |      | 44        | 44       | 66       | 64        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 55      |                                     | 1.5  | 2.6  | .8   | .7   |      |       |       |       |       |       |       |       |       |       |       |      | 41        | 41       | 64       | 54        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4/ 53       |                                     | .8   | 3.0  | .5   | .1   |      |       |       |       |       |       |       |       |       |       |       |      | 33        | 33       | 49       | 68        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2/ 51       |                                     | .5   | 2.2  | .3   | .1   |      |       |       |       |       |       |       |       |       |       |       |      | 23        | 23       | 45       | 45        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 49      |                                     | .3   | 1.2  | .8   |      |      |       |       |       |       |       |       |       |       |       |       |      | 17        | 17       | 31       | 59        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 47      |                                     | .4   | .5   | .3   |      |      |       |       |       |       |       |       |       |       |       |       |      | 9         | 9        | 27       | 51        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 45      |                                     | .4   | .8   | .1   |      |      |       |       |       |       |       |       |       |       |       |       |      | 10        | 10       | 13       | 29        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4/ 43       |                                     | .7   | .5   | .1   |      |      |       |       |       |       |       |       |       |       |       |       |      | 10        | 10       | 13       | 16        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2/ 41       |                                     | .5   | .1   | .1   |      |      |       |       |       |       |       |       |       |       |       |       |      | 6         | 6        | 13       | 18        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 39      |                                     |      | .3   |      |      |      |       |       |       |       |       |       |       |       |       |       |      | 2         | 2        | 6        | 18        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 3 / 37      |                                     | .3   |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      | 2         | 2        | 5        | 11        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 7 / 35      |                                     | .1   |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      | 1         | 1        | 3        | 6         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 3 / 33      |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 2         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 31      |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 5         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| TOTAL       |                                     | .124 | .032 | .222 | .713 | .4   | 6.4   | 1.1   |       |       |       |       |       |       |       |       |      | 732       | 733      | 732      | 732       |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|             |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       | </    |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |

## PSYCHROMETRIC SUMMARY

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81

YEARS

**JUN**  
**MONTH**

PAGE 1

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

     JUL       
MONTH

PAGE 1 0000-3200  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |       |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|------|-------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|--|--|--|--|--|--|--|--|-------|--|-------|--|
|              | 0                                   | 1-2  | 3-4   | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 31         |                                     |      |       | .3  |     |      |       |       |       |       |       |       |       |       |       |       |      | 2         | 2        |          |           |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 79         |                                     |      | .6    | .3  |     |      |       |       |       |       |       |       |       |       |       |       |      | 6         | 6        |          |           |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 7 / 77       |                                     |      | .6    |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 4         | 4        |          |           |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6 / 75       | .1                                  | .3   | .4    | 1.0 | .3  | .1   |       |       |       |       |       |       |       |       |       |       |      | 23        | 23       | 7        | 1         |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 73       |                                     | .8   | 2.6   | 1.4 | .3  | .3   |       |       |       |       |       |       |       |       |       |       |      | 39        | 39       | 12       | 10        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 71         | .3                                  | 2.1  | 2.1   | 1.7 | .1  | .1   |       |       |       |       |       |       |       |       |       |       |      | 46        | 46       | 20       | 12        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 69         | .3                                  | 1.8  | 3.4   | 1.5 | .3  | .1   | .3    |       |       |       |       |       |       |       |       |       |      | 56        | 56       | 55       | 31        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6 / 67       | .1                                  | 2.3  | 5.6   | 1.2 | .7  |      |       |       |       |       |       |       |       |       |       |       |      | 73        | 73       | 38       | 44        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6 / 65       | .3                                  | 6.6  | 3.6   | 1.7 | .7  |      |       |       |       |       |       |       |       |       |       |       |      | 93        | 93       | 72       | 47        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 63       |                                     | 7.2  | 2.1   | .8  | .3  |      |       |       |       |       |       |       |       |       |       |       |      | 75        | 75       | 112      | 86        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 61       | .1                                  | 5.8  | 2.3   | 1.4 | .1  |      |       |       |       |       |       |       |       |       |       |       |      | 71        | 71       | 75       | 94        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 59         | .1                                  | 6.3  | 2.9   | .1  |     |      |       |       |       |       |       |       |       |       |       |       |      | 69        | 69       | 77       | 68        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 57         | .1                                  | 3.9  | 1.8   | .1  |     |      |       |       |       |       |       |       |       |       |       |       |      | 43        | 43       | 78       | 71        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 55       | .1                                  | 4.0  | 1.7   | .3  | .4  |      |       |       |       |       |       |       |       |       |       |       |      | 42        | 42       | 56       | 79        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 53       |                                     | 2.6  | 2.6   |     | .1  |      |       |       |       |       |       |       |       |       |       |       |      | 39        | 39       | 34       | 67        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 51       | .1                                  | 2.2  | .3    |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 19        | 19       | 34       | 33        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 49       |                                     | 1.4  | .7    | .1  |     |      |       |       |       |       |       |       |       |       |       |       |      | 16        | 16       | 28       | 33        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 47       |                                     | .3   | .4    |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 5         | 5        | 17       | 26        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 45       |                                     | .3   | .4    |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 5         | 5        | 5        | 11        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 43       |                                     |      |       |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          | 6        | 3         |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 41       |                                     |      |       |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 5         |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 39       |                                     |      |       |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 10        |  |  |  |  |  |  |  |  |  |       |  |       |  |
| TOTAL        | 1.847                               | 8.33 | 312.8 | 3.3 | .7  | .3   |       |       |       |       |       |       |       |       |       |       |      |           | 726      | 726      | 726       |  |  |  |  |  |  |  |  |  |       |  |       |  |

| Element (X) | Σ x'    | Σ x   | R    | Σ x <sup>2</sup> | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        | Total |
|-------------|---------|-------|------|------------------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|
| Rel. Hum.   | 5276651 | 61575 | 84.8 | 8.648            | 726      | ≥ 0 F                              | ≥ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F |       |
| Dry Bulb    | 2965719 | 46129 | 63.5 | 6.923            | 726      |                                    |        | 31.9   | 9.5    | .6     |        | 93    |
| Wet Bulb    | 2705579 | 44067 | 60.7 | 6.516            | 726      |                                    |        | 16.9   | 2.4    |        |        | 93    |
| Dew Point   | 2548792 | 42726 | 58.9 | 6.880            | 726      |                                    |        | 12.6   | 1.4    |        |        | 93    |

**USAFETAC** FORM 0-26-5 (OLA)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725250 YOUNGSTOWN MAP OH  
STATION

73-81

YEARS

JUL  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | TOTAL     |  | TOTAL |  |
|--------------|-------------------------------------|------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|-------|--|
|              | 0                                   | 1-2  | 3-4  | 5-6  | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |       |  |
| 81           |                                     |      |      | .1   |     | .1   |       |       |       |       |       |       |       |       |       |       |      | 2         | 2        |          |           |  |       |  |
| 79           |                                     |      | .4   | .5   | .1  | .1   |       |       |       |       |       |       |       |       |       |       |      | 9         | 10       |          |           |  |       |  |
| 77           |                                     |      | .5   | .1   | .2  |      | .1    |       |       |       |       |       |       |       |       |       |      | 8         | 8        | 1        |           |  |       |  |
| 75           |                                     | .2   | 1.2  | 1.3  | .5  | .4   |       |       |       |       |       |       |       |       |       |       |      | 30        | 30       | 4        | 2         |  |       |  |
| 73           |                                     | 1.5  | 1.8  | 2.0  | .7  | .2   |       |       |       |       |       |       |       |       |       |       |      | 51        | 51       | 14       | 7         |  |       |  |
| 71           |                                     | 2.1  | 4.0  | 1.8  | .5  | .1   |       |       |       |       |       |       |       |       |       |       |      | 70        | 70       | 31       | 15        |  |       |  |
| 69           | .6                                  | 3.9  | 5.6  | 1.3  | 1.0 | .4   |       |       |       |       |       |       |       |       |       |       |      | 105       | 105      | 63       | 41        |  |       |  |
| 67           |                                     | 4.6  | 4.2  | 2.4  | 1.1 | .2   |       |       |       |       |       |       |       |       |       |       |      | 103       | 103      | 90       | 63        |  |       |  |
| 65           | .1                                  | 5.6  | 2.6  | 1.6  | .2  | .2   | .1    |       |       |       |       |       |       |       |       |       |      | 86        | 86       | 103      | 92        |  |       |  |
| 63           | .2                                  | 5.5  | 2.4  | 2.2  | .5  | .1   |       |       |       |       |       |       |       |       |       |       |      | 90        | 90       | 109      | 101       |  |       |  |
| 61           | .2                                  | 5.1  | 1.0  | 2.4  | .5  |      |       |       |       |       |       |       |       |       |       |       |      | 76        | 76       | 95       | 91        |  |       |  |
| 59           | .9                                  | 5.9  | 2.1  | .5   | .2  |      |       |       |       |       |       |       |       |       |       |       |      | 78        | 78       | 84       | 91        |  |       |  |
| 57           | .4                                  | 2.8  | .7   | .4   |     | .1   |       |       |       |       |       |       |       |       |       |       |      | 36        | 37       | 83       | 82        |  |       |  |
| 55           | .2                                  | 2.1  | .7   | .1   | .1  |      |       |       |       |       |       |       |       |       |       |       |      | 27        | 27       | 55       | 70        |  |       |  |
| 53           | .2                                  | 1.8  | .7   |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 23        | 23       | 33       | 59        |  |       |  |
| 51           |                                     | 1.1  | .4   |      | .1  |      |       |       |       |       |       |       |       |       |       |       |      | 13        | 13       | 25       | 38        |  |       |  |
| 49           |                                     | .7   |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 6         | 6        | 14       | 26        |  |       |  |
| 47           |                                     | .1   | .6   |      |     |      |       |       |       |       |       |       |       |       |       |       |      | 6         | 6        | 8        | 24        |  |       |  |
| 45           |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          | 6        | 7         |  |       |  |
| 43           |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          | 1        |           |  |       |  |
| 41           |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 9         |  |       |  |
| 35           |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 1         |  |       |  |
| TOTAL        | 2.9                                 | 43.1 | 28.9 | 16.8 | 5.9 | 2.1  | .2    |       |       |       |       |       |       |       |       |       |      | 819       | 821      | 819      | 819       |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |
|              |                                     |      |      |      |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |       |  |

USAFETAC FORM 0-26-5 (O.L.A.) REVISOR PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE JUL 84

| Element (X) | $\Sigma X$ | $\Sigma X^2$ | $\bar{X}$ | $\sigma^2$ | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        | Total  |
|-------------|------------|--------------|-----------|------------|----------|------------------------------------|--------|--------|--------|--------|--------|
| Rel. Hum.   | 5794765    | 68405        | 83.5      | 9.976      | 819      | ≤ 0 F                              | ≤ 32 F | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F |
| Dry Bulb    | 3533560    | 53608        | 65.3      | 6.360      | 821      |                                    |        | 42.9   | 11.4   | .7     | 93     |
| Wet Bulb    | 3187626    | 50862        | 62.1      | 5.951      | 819      |                                    |        | 23.1   | 2.2    |        | 93     |
| Dew Point   | 2988971    | 49193        | 60.1      | 6.467      | 819      |                                    |        | 14.5   | 1.0    |        | 93     |

## PSYCHROMETRIC SUMMARY

JUL

**MONTH**

HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  | TOTAL |  | TOTAL |  |
|--------------|-------------------------------------|-----|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|--|--|--|--|--|--|--|--|--|-------|--|-------|--|
|              | 0                                   | 1-2 | 3-4  | 5-6  | 7-8  | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 89         |                                     |     |      |      |      |      |       | .1    |       |       |       |       |       |       |       |       |      | 1         | 1        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 8 / 87       |                                     |     |      |      |      | .4   | .5    | .1    | .1    |       |       |       |       |       |       |       |      | 9         | 9        |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6 / 85       |                                     |     |      |      | .5   | .6   | .4    | .4    |       |       |       |       |       |       |       |       |      | 15        | 15       |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 83       |                                     |     |      | .1   | 1.1  | 1.1  | 1.1   | .5    |       |       |       |       |       |       |       |       |      | 32        | 32       |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 81         |                                     |     | .2   | .6   | 1.8  | 1.2  | .7    | .7    | .1    |       |       |       |       |       |       |       |      | 45        | 45       |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 79         |                                     |     |      | .5   | 2.1  | 3.1  | 1.8   | 1.1   | .2    |       |       |       |       |       |       |       |      | 72        | 72       |          | 1         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 7 / 77       |                                     | .1  | .4   | 1.7  | 2.2  | 1.8  | 2.3   | .7    | .2    |       |       |       |       |       |       |       |      | 78        | 78       | 13       |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6 / 75       |                                     |     | 1.3  | 1.8  | 3.8  | 2.4  | 1.5   | 1.6   |       |       |       |       |       |       |       |       |      | 102       | 102      | 28       | 7         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 73       |                                     | .6  | 2.2  | 3.3  | 2.1  | 2.6  | 2.2   | .4    | .2    | .1    | .1    |       |       |       |       |       |      | 113       | 113      | 42       | 19        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 71         |                                     | 1.3 | 2.7  | 3.5  | 2.4  | 2.2  | 2.1   | .2    | .1    |       |       |       |       |       |       |       |      | 120       | 120      | 80       | 26        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 69         | .1                                  | 1.2 | 2.9  | 1.3  | 2.0  | 2.0  | 1.1   | .4    | .1    |       |       |       |       |       |       |       |      | 91        | 91       | 103      | 73        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6 / 67       | .1                                  | .4  | 1.5  | 1.6  | 1.5  | .5   | 1.0   | .2    |       |       |       |       |       |       |       |       |      | 55        | 55       | 140      | 80        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 6 / 65       | .1                                  | 1.3 | .6   | .7   | .6   | .5   | .2    |       |       |       |       |       |       |       |       |       |      | 34        | 34       | 111      | 94        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 63       |                                     | .6  | .2   | .5   | .7   | .2   |       |       |       |       |       |       |       |       |       |       |      | 19        | 19       | 99       | 98        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 61         |                                     | 1.5 | .1   | .1   |      | .2   |       |       |       |       |       |       |       |       |       |       |      | 16        | 16       | 72       | 91        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 59         |                                     | .4  | .7   |      | .1   | .1   |       |       |       |       |       |       |       |       |       |       |      | 11        | 11       | 59       | 75        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| / 57         |                                     | .4  |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      | 3         | 3        | 32       | 64        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 55       |                                     |     | .2   |      |      |      |       |       |       |       |       |       |       |       |       |       |      | 2         | 2        | 26       | 58        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 53       |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          | 7        | 58        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 51       |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          | 5        | 23        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 5 / 49       |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 17        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 47       |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 10        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 45       |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 10        |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 43       |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 9         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 2 / 41       |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 4         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 4 / 39       |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 1         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| 3 / 37       |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 1         |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
| TOTAL        | .4                                  | 7.8 | 13.2 | 15.9 | 27.9 | 18.9 | 14.9  | 6.5   | 1.2   | .1    | .1    |       |       |       |       |       |      | 818       | 818      | 818      |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      | 818       | 818      |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |
|              |                                     |     |      |      |      |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |  |  |  |  |  |  |  |  |  |  |       |  |       |  |

## PSYCHROMETRIC SUMMARY

|         |                   |
|---------|-------------------|
| 725257  | YOUNGSTOWN MAP OH |
| STATION | STATION NAME      |

73-81

YEARS

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PAGE 1 1200-1400  
HOURS (L. S. T.)

[illegible]





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AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER--FTC F/G 4/2  
YOUNGSTOWN MAP, OHIO. REVISED UNIFORM SUMMARY OF SURFACE WEATHER--ETC (11)  
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UNCLASSIFIED USAFETAC/DS-82/034

SBI-AD-E850 193

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## PSYCHROMETRIC SUMMARY

YEARS

**JUL**

[illegible]



## PSYCHROMETRIC SUMMARY

**73-81**

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HOURS (L. S. T.)

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**MONTH**

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USAFETAC  
FORM 0-26-5 (OL A)  
RE 44  
REVISE PREVIOUS EDITIONS OF THIS FORM AND COMPLETE

## PSYCHROMETRIC SUMMARY

|         |                   |
|---------|-------------------|
| 725250  | YOUNGSTOWN MAP OH |
| STATION | STATION           |

**73-81**

**YEARS**

**AUG**  
**MONTH**

**PAGE 1**

**0600-0800**  
NEWS (L. S. T.)

[illegible]

**USAFETAC**



## PSYCHROMETRIC SUMMARY

|         |                   |
|---------|-------------------|
| 725250  | YOUNGSTOWN MAP OH |
| STATION | STATION NAME      |

**73-81**

**YEARS**

AUG  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

**YEARS**

PAGE 1 1800-2000  
HOURS (L. S. T.)

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## PSYCHROMETRIC SUMMARY

73-81

YEARS

AUG  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

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## PSYCHROMETRIC SUMMARY

AUG  
MONTH

STATION

STATION NAME

YEARS

**MONTH**

PAGE 1

ALL  
HOURS (L. S. T.)

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## PSYCHROMETRIC SUMMARY

**73-81**

SEP

PAGE 1 0900-1100  
MORRIS (L. S. T.)

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIP WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725250 YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81  
YEARS

SEP  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |      |       |      |      |       |       |       |                |       |       |          |       |       |                                    |        |          |          |           | TOTAL<br>D.B./W.B. | TOTAL |  |  |  |  |  |  |
|--------------|-------------------------------------|-----|------|-------|------|------|-------|-------|-------|----------------|-------|-------|----------|-------|-------|------------------------------------|--------|----------|----------|-----------|--------------------|-------|--|--|--|--|--|--|
|              | 0                                   | 1-2 | 3-4  | 5-6   | 7-8  | 9-10 | 11-12 | 13-14 | 15-16 | 17-18          | 19-20 | 21-22 | 23-24    | 25-26 | 27-28 | 29-30                              | ≥31    | Dry Bulb | Wet Bulb | Dew Point |                    |       |  |  |  |  |  |  |
| 92/ 91       |                                     |     |      |       |      |      |       | .1    |       | .1             |       |       |          |       |       |                                    |        | 1        |          | 1         |                    |       |  |  |  |  |  |  |
| 90/ 89       |                                     |     |      |       |      |      |       | .4    | .4    |                |       |       |          |       |       |                                    |        | 7        |          | 7         |                    |       |  |  |  |  |  |  |
| 88/ 87       |                                     |     |      |       |      |      |       | .3    | 1.0   | .3             |       |       |          |       |       |                                    |        | 12       |          | 12        |                    |       |  |  |  |  |  |  |
| 86/ 85       |                                     |     |      |       |      | .5   | .1    | .4    | .1    |                |       | .3    |          |       |       |                                    |        | 11       |          | 11        |                    |       |  |  |  |  |  |  |
| 84/ 83       |                                     |     |      |       | .4   | .5   | .1    | .8    | .3    | .1             |       |       |          |       |       |                                    |        | 17       |          | 17        |                    |       |  |  |  |  |  |  |
| 82/ 81       |                                     | .1  | .3   |       | .4   | .8   | .8    | .8    | .1    | .1             |       |       |          |       |       |                                    |        | 26       |          | 26        |                    |       |  |  |  |  |  |  |
| 80/ 79       |                                     |     |      | .3    | 1.0  | 1.8  | .9    | 1.1   | .3    | .1             |       |       |          |       |       |                                    |        | 43       |          | 43        | 1 1                |       |  |  |  |  |  |  |
| 78/ 77       |                                     |     | .1   | .6    | .8   | 1.0  | 2.0   | .5    |       | .3             |       |       |          |       |       |                                    |        | 42       |          | 42        | 4                  |       |  |  |  |  |  |  |
| 76/ 75       |                                     | .1  | .1   | 1.0   | .6   | 2.3  | 1.4   | .5    | .3    |                |       |       |          |       |       |                                    |        | 50       |          | 50        | 17 2               |       |  |  |  |  |  |  |
| 74/ 73       |                                     | .3  | .6   | 1.3   | 1.1  | 2.4  | 1.6   | 1.5   | .6    |                |       |       |          |       |       |                                    |        | 75       |          | 75        | 23 2               |       |  |  |  |  |  |  |
| 72/ 71       |                                     | .3  | .8   | 1.0   | 2.0  | 1.5  | 2.3   | 1.6   |       |                |       |       |          |       |       |                                    |        | 75       |          | 75        | 37 9               |       |  |  |  |  |  |  |
| 70/ 69       |                                     |     | 1.3  | 1.0   | 1.3  | 2.9  | 1.4   | .8    |       |                |       |       |          |       |       |                                    |        | 68       |          | 68        | 44 32              |       |  |  |  |  |  |  |
| 68/ 67       |                                     | .8  | 1.3  | .5    | 1.1  | .8   | 2.3   | .5    | .1    |                |       |       |          |       |       |                                    |        | 58       |          | 58        | 48 35              |       |  |  |  |  |  |  |
| 66/ 65       |                                     | .6  | .9   | .9    | 1.9  | 1.8  | 2.5   | .3    | .3    |                |       |       |          |       |       |                                    |        | 72       |          | 72        | 88 39              |       |  |  |  |  |  |  |
| 64/ 63       |                                     | 1.3 | .3   | .8    | 1.4  | 2.3  | 2.0   |       |       |                |       |       |          |       |       |                                    |        | 63       |          | 63        | 77 51              |       |  |  |  |  |  |  |
| 62/ 61       |                                     | 1.4 | .4   | .4    | 1.8  | 1.8  | .4    | .3    | .1    |                |       |       |          |       |       |                                    |        | 51       |          | 51        | 58 55              |       |  |  |  |  |  |  |
| 60/ 59       |                                     | 1.5 | .8   | .5    | .9   | .9   | .1    | .1    |       |                |       |       |          |       |       |                                    |        | 38       |          | 38        | 86 63              |       |  |  |  |  |  |  |
| 58/ 57       |                                     | .5  | 1.5  | .9    | .9   | .1   | .5    |       |       |                |       |       |          |       |       |                                    |        | 35       |          | 35        | 66 66              |       |  |  |  |  |  |  |
| 56/ 55       |                                     | .5  | .6   | .6    | .3   | 1.3  |       |       |       |                |       |       |          |       |       |                                    |        | 26       |          | 26        | 73 42              |       |  |  |  |  |  |  |
| 54/ 53       |                                     | .3  | .4   | .3    | .3   | .5   |       |       |       |                |       |       |          |       |       |                                    |        | 13       |          | 13        | 65 63              |       |  |  |  |  |  |  |
| 52/ 51       |                                     | .1  | .6   |       | .3   | .1   |       |       |       |                |       |       |          |       |       |                                    |        | 9        |          | 9         | 47 58              |       |  |  |  |  |  |  |
| 50/ 49       |                                     |     | .3   | .3    | .3   |      |       |       |       |                |       |       |          |       |       |                                    |        | 6        |          | 6         | 23 52              |       |  |  |  |  |  |  |
| 48/ 47       |                                     |     |      |       |      |      |       |       |       |                |       |       |          |       |       |                                    |        |          |          |           | 19 60              |       |  |  |  |  |  |  |
| 46/ 45       |                                     |     |      |       |      |      |       |       |       |                |       |       |          |       |       |                                    |        |          |          |           | 19 61              |       |  |  |  |  |  |  |
| 44/ 43       |                                     |     |      |       |      |      |       |       |       |                |       |       |          |       |       |                                    |        |          |          |           | 5 33               |       |  |  |  |  |  |  |
| 42/ 41       |                                     |     |      |       |      |      |       |       |       |                |       |       |          |       |       |                                    |        |          |          |           | 3 19               |       |  |  |  |  |  |  |
| 40/ 39       |                                     |     |      |       |      |      |       |       |       |                |       |       |          |       |       |                                    |        |          |          |           | 19                 |       |  |  |  |  |  |  |
| 38/ 37       |                                     |     |      |       |      |      |       |       |       |                |       |       |          |       |       |                                    |        |          |          |           | 10                 |       |  |  |  |  |  |  |
| 36/ 35       |                                     |     |      |       |      |      |       |       |       |                |       |       |          |       |       |                                    |        |          |          |           | 12                 |       |  |  |  |  |  |  |
| 34/ 33       |                                     |     |      |       |      |      |       |       |       |                |       |       |          |       |       |                                    |        |          |          |           | 6                  |       |  |  |  |  |  |  |
| 32/ 31       |                                     |     |      |       |      |      |       |       |       |                |       |       |          |       |       |                                    |        |          |          |           | 5                  |       |  |  |  |  |  |  |
| 30/ 29       |                                     |     |      |       |      |      |       |       |       |                |       |       |          |       |       |                                    |        |          |          |           | 3                  |       |  |  |  |  |  |  |
| TOTAL        |                                     | 7.6 | 10.0 | 10.2  | 16.4 | 22.9 | 18.7  | 10.4  | 2.9   | .6             |       | .3    |          |       |       |                                    |        | 798      |          | 798       | 798                |       |  |  |  |  |  |  |
| Element (K)  | Σg <sup>2</sup>                     |     |      | Σx    |      |      | Σ     |       |       | Σ <sub>2</sub> |       |       | No. Obs. |       |       | Mean No. of Hours with Temperature |        |          |          |           |                    |       |  |  |  |  |  |  |
| Rel. Hum.    | 3128085                             |     |      | 48567 |      |      | 60.9  |       |       | 19.701         |       |       | 798      |       |       | ≤ 6 F                              | ≤ 32 F | ≥ 67 F   | ≥ 73 F   | ≥ 80 F    | ≥ 93 F             | Total |  |  |  |  |  |  |
| Dry Bulb     | 3880142                             |     |      | 55238 |      |      | 69.2  |       |       | 8.422          |       |       | 798      |       |       |                                    |        | 54.7     | 32.0     | 10.5      |                    | 90    |  |  |  |  |  |  |
| Wet Bulb     | 2977817                             |     |      | 48387 |      |      | 60.4  |       |       | 7.392          |       |       | 798      |       |       |                                    |        | 19.6     | 5.1      | .1        |                    | 90    |  |  |  |  |  |  |
| Dew Point    | 2433793                             |     |      | 43488 |      |      | 54.5  |       |       | 9.208          |       |       | 798      |       |       |                                    | .9     | 9.1      | .6       | .1        |                    | 90    |  |  |  |  |  |  |

FORM 0-26-5 (OL A)  
USAFETAC  
USAFETAC

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

YEARS

SEP  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

| Temp.<br>(F)                       | WET BULB TEMPERATURE DEPRESSION (F) |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           | TOTAL<br>D.B./W.B. | TOTAL |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------|-------------------------------------|-------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|-------|------------------|-------|------------------|----------|-------------------|-----------|--------------------|-------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                                    | 0                                   | 1-2   | 3-4              | 5-6    | 7-8              | 9-10   | 11-12            | 13-14  | 15-16            | 17-18  | 19-20            | 21-22  | 23-24            | 25-26 | 27-28            | 29-30 | 31               | Dry Bulb | Wet Bulb          | Dew Point |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 94/ 93                             |                                     |       |                  |        |                  |        |                  |        | .1               |        |                  |        |                  |       |                  |       |                  | 1        | 1                 |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 92/ 91                             |                                     |       |                  |        |                  |        |                  |        | .1               |        |                  |        |                  |       |                  |       |                  | 1        | 1                 |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90/ 89                             |                                     |       |                  |        |                  |        |                  | .4     | .1               | .3     |                  |        |                  |       |                  |       |                  | 6        | 6                 |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 88/ 87                             |                                     |       |                  |        |                  |        |                  | .8     | .8               |        |                  | .1     |                  |       |                  |       |                  | 13       | 13                |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 86/ 85                             |                                     |       |                  |        |                  | .3     | .4               | .3     | .3               | .1     | .1               |        |                  |       |                  |       |                  | 11       | 11                |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 84/ 83                             |                                     |       | .1               | .3     | .3               | .5     | .6               | .3     | .3               |        | .1               |        |                  |       |                  |       |                  | 17       | 17                |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 82/ 81                             |                                     |       |                  | .4     | .9               | 1.1    | .9               | .3     | .1               |        |                  |        |                  |       |                  |       |                  | 29       | 29                |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80/ 79                             |                                     |       | .1               | .6     | 1.3              | 1.0    | 1.8              | .6     | .4               |        |                  |        |                  |       |                  |       |                  | 46       | 46                |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 78/ 77                             |                                     | .1    | .6               | .5     | 1.0              | 1.9    | 1.0              | .3     | .1               |        |                  |        |                  |       |                  |       |                  | 44       | 44                | 3         |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 76/ 75                             |                                     | .5    | 1.0              | 1.5    | .8               | 1.4    | .6               | 1.0    | .3               |        |                  |        |                  |       |                  |       |                  | 56       | 56                | 9         | 1                  |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 74/ 73                             |                                     | .5    | 1.8              | 1.3    | 2.5              | 2.3    | 1.4              | 1.5    | .1               |        |                  |        |                  |       |                  |       |                  | 90       | 90                | 23        | 1                  |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 72/ 71                             |                                     | .8    | 1.0              | 1.4    | 1.4              | 2.4    | .6               |        | .3               |        |                  |        |                  |       |                  |       |                  | 62       | 62                | 32        | 3                  |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70/ 69                             |                                     | .3    | 1.8              | .4     | 1.3              | 1.8    | 1.3              | 1.3    |                  |        |                  |        |                  |       |                  |       |                  | 65       | 65                | 48        | 24                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 68/ 67                             |                                     | .4    | 1.5              | .8     | .4               | 1.9    | 2.5              | .8     | .1               |        |                  |        |                  |       |                  |       |                  | 66       | 66                | 66        | 36                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 66/ 65                             |                                     | .1    | .4               | 1.4    | 1.0              | 2.2    | 2.5              | .8     | .1               |        |                  |        |                  |       |                  |       |                  | 67       | 67                | 75        | 55                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 64/ 63                             |                                     | 1.4   | .3               | .9     | 1.1              | 1.3    | 1.9              | .1     |                  |        |                  |        |                  |       |                  |       |                  | 55       | 55                | 74        | 51                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 62/ 61                             | .1                                  | .9    | .8               | .1     | .9               | 1.6    | 1.0              | .3     | .1               |        |                  |        |                  |       |                  |       |                  | 46       | 46                | 67        | 37                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60/ 59                             |                                     | .8    | .3               | .6     | 1.1              | .6     | 1.0              | .1     |                  |        |                  |        |                  |       |                  |       |                  | 36       | 36                | 89        | 62                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 58/ 57                             |                                     | .5    | 1.5              | .6     | 1.0              | .6     | .1               | .1     |                  |        |                  |        |                  |       |                  |       |                  | 36       | 37                | 62        | 61                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 56/ 55                             |                                     | .1    | .3               | .3     | .4               | .8     |                  |        |                  |        |                  |        |                  |       |                  |       |                  | 14       | 14                | 66        | 58                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 54/ 53                             |                                     | .1    | .5               | .3     | .4               | .3     |                  |        |                  |        |                  |        |                  |       |                  |       |                  | 12       | 13                | 67        | 44                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 52/ 51                             |                                     | .3    | .6               |        | .1               | .1     |                  |        |                  |        |                  |        |                  |       |                  |       |                  | 9        | 9                 | 40        | 69                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50/ 49                             |                                     | .3    | .1               |        | .4               | .3     |                  |        |                  |        |                  |        |                  |       |                  |       |                  | 8        | 8                 | 25        | 53                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 48/ 47                             |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   | 23        | 47                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 46/ 45                             |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   | 14        | 65                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 44/ 43                             |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   | 5         | 42                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 42/ 41                             |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   | 2         | 21                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40/ 39                             |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           | 18                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 38/ 37                             |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           | 15                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 36/ 35                             |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           | 15                 |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 34/ 33                             |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           | 8                  |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32/ 31                             |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           | 2                  |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30/ 29                             |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           | 8                  |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Element (X)                        | Σ H <sup>1</sup>                    |       | Σ H <sup>2</sup> |        | Σ H <sup>3</sup> |        | Σ H <sup>4</sup> |        | Σ H <sup>5</sup> |        | Σ H <sup>6</sup> |        | Σ H <sup>7</sup> |       | Σ H <sup>8</sup> |       | Σ H <sup>9</sup> |          | Σ H <sup>10</sup> |           | Σ H <sup>11</sup>  |       | Σ H <sup>12</sup> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rel. Hum.                          |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dry Bulb                           |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wet Bulb                           |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Dew Point                          |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mean No. of Hours with Temperature |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                    |                                     | ≤ 6 F |                  | ≤ 32 F |                  | ≤ 67 F |                  | ≤ 73 F |                  | ≤ 80 F |                  | ≤ 93 F |                  | Total |                  |       |                  |          |                   |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                    |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                    |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                    |                                     |       |                  |        |                  |        |                  |        |                  |        |                  |        |                  |       |                  |       |                  |          |                   |           |                    |       |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

FORM 0-26-5 (OL.A) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC

## PSYCHROMETRIC SUMMARY

YEARS

SEP  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

729250  
STATION

YOUNGSTOWN MAP OH

**73-81**

SEP

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

|               |                          |
|---------------|--------------------------|
| <u>725250</u> | <u>YOUNGSTOWN MAP OH</u> |
| STATION       | STATION NAME             |

**73-81**

**YEARS**

**SEP**  
**MONTH**

PAGE 1 2100-2300  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725250 YOUNGSTOWN MAP OH  
STATION STATION NAME

73-81  
YEARS

SEP  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |          |          |           |        |       |  |  |  |  |  |  |  |  |     | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------------------------------------|--------|----------|----------|-----------|--------|-------|--|--|--|--|--|--|--|--|-----|--------------------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24    | 25-26 | 27-28 | 29-30                              | ≥ 31   | Dry Bulb | Wet Bulb | Dew Point |        |       |  |  |  |  |  |  |  |  |     |                    |       |  |  |
| 94/ 93       |                                     |     |     |     |     |      |       |       | .0    |       |       |       |          |       |       |                                    |        | 1        |          |           |        |       |  |  |  |  |  |  |  |  |     | 1                  |       |  |  |
| 92/ 91       |                                     |     |     |     |     |      |       |       | .0    |       |       |       |          |       |       |                                    |        | 2        |          |           |        |       |  |  |  |  |  |  |  |  |     | 2                  |       |  |  |
| 90/ 89       |                                     |     |     |     |     |      |       | .0    | .1    | .1    | .0    |       |          |       |       |                                    |        | 13       |          |           |        |       |  |  |  |  |  |  |  |  |     | 13                 |       |  |  |
| 88/ 87       |                                     |     |     |     |     |      |       | .0    | .2    | .1    |       |       |          |       |       | .0                                 |        | 25       |          |           |        |       |  |  |  |  |  |  |  |  |     | 25                 |       |  |  |
| 86/ 85       |                                     |     |     |     |     | .2   | .1    | .1    | .1    | .1    | .0    | .0    | .0       |       |       |                                    |        | 32       |          |           |        |       |  |  |  |  |  |  |  |  |     | 32                 |       |  |  |
| 84/ 83       |                                     |     |     | .0  | .1  | .1   | .2    | .2    | .1    | .0    | .0    | .0    |          |       |       |                                    |        | 44       |          |           |        |       |  |  |  |  |  |  |  |  |     | 44                 |       |  |  |
| 82/ 81       |                                     | .0  | .0  | .0  | .2  | .3   | .3    | .2    | .1    | .0    |       |       |          |       |       |                                    |        | 73       |          |           |        |       |  |  |  |  |  |  |  |  |     | 73                 |       |  |  |
| 80/ 79       |                                     |     | .0  | .2  | .3  | .6   | .3    | .4    | .1    | .1    |       |       |          |       |       |                                    |        | 116      |          |           |        |       |  |  |  |  |  |  |  |  | 116 | 1                  | 1     |  |  |
| 78/ 77       |                                     |     | .1  | .3  | .3  | .4   | .6    | .2    | .0    | .0    |       |       |          |       |       |                                    |        | 124      |          |           |        |       |  |  |  |  |  |  |  |  | 124 | 7                  |       |  |  |
| 76/ 75       |                                     | .1  | .2  | .7  | .7  | .5   | .4    | .2    | .2    | .0    |       |       |          |       |       |                                    |        | 187      |          |           |        |       |  |  |  |  |  |  |  |  | 187 | 38                 | 3     |  |  |
| 74/ 73       |                                     | .2  | .6  | 1.0 | .6  | .9   | .5    | .4    | .3    | .0    |       |       |          |       |       |                                    |        | 279      |          |           |        |       |  |  |  |  |  |  |  |  | 279 | 79                 | 7     |  |  |
| 72/ 71       |                                     | .4  | 1.0 | 1.0 | 1.0 | .6   | .7    | .3    |       | .0    |       |       |          |       |       |                                    |        | 312      |          |           |        |       |  |  |  |  |  |  |  |  | 312 | 135                | 44    |  |  |
| 70/ 69       | .0                                  | 1.1 | 2.1 | .8  | 1.0 | .8   | .5    | .3    |       |       |       |       |          |       |       |                                    |        | 416      |          |           |        |       |  |  |  |  |  |  |  |  | 416 | 218                | 123   |  |  |
| 68/ 67       |                                     | 1.5 | 1.8 | .8  | .8  | .6   | .7    | .2    | .0    |       |       |       |          |       |       |                                    |        | 401      |          |           |        |       |  |  |  |  |  |  |  |  | 402 | 325                | 201   |  |  |
| 66/ 65       | .1                                  | 2.1 | 2.0 | 1.2 | .8  | .7   | .7    | .1    | .0    |       |       |       |          |       |       |                                    |        | 491      |          |           |        |       |  |  |  |  |  |  |  |  | 492 | 467                | 320   |  |  |
| 64/ 63       | .0                                  | 2.6 | 1.6 | 1.5 | .8  | .6   | .6    | .0    |       |       |       |       |          |       |       |                                    |        | 481      |          |           |        |       |  |  |  |  |  |  |  |  | 481 | 461                | 367   |  |  |
| 62/ 61       | .2                                  | 2.5 | 1.7 | 1.2 | 1.0 | .6   | .2    | .1    | .0    |       |       |       |          |       |       |                                    |        | 472      |          |           |        |       |  |  |  |  |  |  |  |  | 473 | 490                | 388   |  |  |
| 60/ 59       | .1                                  | 2.3 | 2.5 | 1.5 | .7  | .4   | .1    | .0    |       |       |       |       |          |       |       |                                    |        | 484      |          |           |        |       |  |  |  |  |  |  |  |  | 484 | 531                | 455   |  |  |
| 58/ 57       | .2                                  | 2.4 | 2.4 | 1.4 | .6  | .2   | .1    | .0    |       |       |       |       |          |       |       |                                    |        | 461      |          |           |        |       |  |  |  |  |  |  |  |  | 462 | 520                | 450   |  |  |
| 56/ 55       | .2                                  | 2.2 | 2.4 | .8  | .3  | .4   | .0    |       |       |       |       |       |          |       |       |                                    |        | 395      |          |           |        |       |  |  |  |  |  |  |  |  | 396 | 574                | 466   |  |  |
| 54/ 53       | .1                                  | 2.1 | 1.6 | .6  | .4  | .1   | .0    |       |       |       |       |       |          |       |       |                                    |        | 306      |          |           |        |       |  |  |  |  |  |  |  |  | 307 | 515                | 483   |  |  |
| 52/ 51       |                                     | 2.2 | 2.0 | .3  | .4  | .0   |       |       |       |       |       |       |          |       |       |                                    |        | 313      |          |           |        |       |  |  |  |  |  |  |  |  | 314 | 479                | 497   |  |  |
| 50/ 49       |                                     | 1.4 | 1.6 | .4  | .3  | .0   |       |       |       |       |       |       |          |       |       |                                    |        | 238      |          |           |        |       |  |  |  |  |  |  |  |  | 238 | 346                | 492   |  |  |
| 48/ 47       |                                     | 1.7 | .7  | .2  | .1  |      |       |       |       |       |       |       |          |       |       |                                    |        | 171      |          |           |        |       |  |  |  |  |  |  |  |  | 171 | 304                | 444   |  |  |
| 46/ 45       |                                     | 1.6 | .5  | .1  | .0  |      |       |       |       |       |       |       |          |       |       |                                    |        | 132      |          |           |        |       |  |  |  |  |  |  |  |  | 132 | 275                | 401   |  |  |
| 44/ 43       |                                     | 1.3 | .3  | .1  |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 106      |          |           |        |       |  |  |  |  |  |  |  |  | 107 | 172                | 315   |  |  |
| 42/ 41       |                                     | .6  | .2  | .1  |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 59       |          |           |        |       |  |  |  |  |  |  |  |  | 59  | 131                | 238   |  |  |
| 40/ 39       | .0                                  | .7  | .3  | .1  |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 71       |          |           |        |       |  |  |  |  |  |  |  |  | 71  | 57                 | 181   |  |  |
| 38/ 37       | .0                                  | .2  | .1  |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 24       |          |           |        |       |  |  |  |  |  |  |  |  | 24  | 60                 | 134   |  |  |
| 36/ 35       | .0                                  | .2  | .0  |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 15       |          |           |        |       |  |  |  |  |  |  |  |  | 15  | 36                 | 116   |  |  |
| 34/ 33       |                                     | .1  |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        | 4        |          |           |        |       |  |  |  |  |  |  |  |  | 4   | 22                 | 45    |  |  |
| 32/ 31       |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |          |          |           |        |       |  |  |  |  |  |  |  |  |     | 5                  | 42    |  |  |
| 30/ 29       |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |          |          |           |        |       |  |  |  |  |  |  |  |  |     |                    | 41    |  |  |
| 28/ 27       |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |          |          |           |        |       |  |  |  |  |  |  |  |  |     |                    | 11    |  |  |
| Element (K)  | Σ H <sup>1</sup>                    |     |     | Σ H |     |      | Σ     |       |       | Σ     |       |       | No. Obs. |       |       | Mean No. of Hours with Temperature |        |          |          |           |        |       |  |  |  |  |  |  |  |  |     |                    |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       | ≤ 6 F                              | ≤ 32 F | ≤ 67 F   | ≤ 73 F   | ≤ 86 F    | ≥ 93 F | Total |  |  |  |  |  |  |  |  |     |                    |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |          |          |           |        |       |  |  |  |  |  |  |  |  |     |                    |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |          |          |           |        |       |  |  |  |  |  |  |  |  |     |                    |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |       |       |       |       |          |       |       |                                    |        |          |          |           |        |       |  |  |  |  |  |  |  |  |     |                    |       |  |  |

FORM 0-26-5 (OL A) REVERSE PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE  
USAFETAC

## PSYCHROMETRIC SUMMARY

|         |                   |
|---------|-------------------|
| 725250  | YOUNGSTOWN MAP OH |
| STATION | STATION NAME      |

73-81

YEARS

**SEP**  
**MONTH**

**PAGE 2**

ALL  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      | TOTAL     | TOTAL    |          |           |
|--------------|-------------------------------------|-------|-------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|-----------|----------|----------|-----------|
|              | 0                                   | 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |
| 26 / 25      |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          | 2         |
| 24 / 23      |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          | 1         |
| TOTAL        | 1.0                                 | 29.5  | 25.9  | 14.4  | 10.3  | 8.1    | 6.1     | 3.1     | 1.2     | .3      | .0      | .0      |         |         |         |         |      | 6248      | 6257     | 6248     | 6248      |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |



## PSYCHROMETRIC SUMMARY

725250  
STATION

YOUNGSTOWN MAP OH

**73-81**

OCT

**PAGE 1**

0000-0200  
HOURS (L. S. T.)

[illegible]





## PSYCHROMETRIC SUMMARY

725257  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81

**YEARS**

OCT  
MONTH

PAGE 1

0900-1100  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |                |                |                |          |                                    |        |        |        |        |        |       |       |       |       |       |    |          |          |           |  |  |  |  |  |  |  |  |  |  | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|----------------|----------------|----------------|----------|------------------------------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|----|----------|----------|-----------|--|--|--|--|--|--|--|--|--|--|--------------------|-------|--|--|
|              | 0                                   | 1-2            | 3-4            | 5-6            | 7-8      | 9-10                               | 11-12  | 13-14  | 15-16  | 17-18  | 19-20  | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | 31 | Dry Bulb | Wet Bulb | Dew Point |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 67/ 75       |                                     |                |                |                |          | .1                                 | .1     |        |        |        |        |       |       |       |       |       |    | 2        | 2        |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 47/ 73       |                                     |                |                |                |          | .2                                 |        |        |        |        |        |       |       |       |       |       |    | 2        | 2        |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 27/ 71       |                                     |                |                |                | .2       | .4                                 |        |        |        |        |        |       |       |       |       |       |    | 5        | 5        |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 7 / 69       |                                     |                |                |                | .6       | .2                                 | .1     | .1     |        |        |        |       |       |       |       |       |    | 9        | 9        |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 67/ 67       |                                     |                | .2             | .5             | .6       | .1                                 | .1     | .1     |        |        |        |       |       |       |       |       |    | 14       | 14       |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 46/ 65       |                                     | .1             | .9             | .5             | 1.0      |                                    | .2     | .2     |        |        |        |       |       |       |       |       |    | 24       | 24       | 4         |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 47/ 63       |                                     | 1.1            | .6             | 1.0            | 1.5      | .4                                 | .6     |        |        |        |        |       |       |       |       |       |    | 42       | 42       | 10        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 27/ 61       |                                     | .9             | .7             | 1.6            | .9       | .4                                 | .5     |        |        |        |        |       |       |       |       |       |    | 40       | 40       | 26        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 7 / 59       |                                     | 1.0            | 1.8            | 1.6            | 1.0      | .2                                 | .1     |        |        |        |        |       |       |       |       |       |    | 47       | 47       | 29        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 57/ 57       |                                     | 1.3            | 1.3            | 1.7            | 1.0      | .7                                 | .2     |        |        |        |        |       |       |       |       |       |    | 52       | 52       | 35        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 57/ 55       |                                     | 1.3            | .9             | 1.2            | 1.0      | .6                                 | .2     |        |        |        |        |       |       |       |       |       |    | 43       | 43       | 51        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 47/ 53       |                                     | 1.1            | 1.2            | 2.6            | 1.6      | 1.0                                | .1     |        |        |        |        |       |       |       |       |       |    | 62       | 62       | 51        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 27/ 51       |                                     | 1.9            | 2.7            | 2.1            | 1.7      | .5                                 |        |        |        |        |        |       |       |       |       |       |    | 73       | 73       | 46        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 5 / 49       |                                     | 2.6            | 3.3            | 3.3            | 1.2      |                                    | .1     |        |        |        |        |       |       |       |       |       |    | 86       | 86       | 64        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 47/ 47       | .2                                  | 2.1            | 1.8            | 2.3            | 1.1      | .2                                 |        |        |        |        |        |       |       |       |       |       |    | 64       | 64       | 78        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 46/ 45       |                                     | 2.6            | 3.2            | 2.2            | .7       |                                    |        |        |        |        |        |       |       |       |       |       |    | 71       | 71       | 86        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 47/ 43       |                                     | 2.1            | 2.2            | 1.2            | .1       | .1                                 |        |        |        |        |        |       |       |       |       |       |    | 47       | 47       | 86        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 27/ 41       |                                     | 1.7            | 1.8            | 1.2            | .5       |                                    |        |        |        |        |        |       |       |       |       |       |    | 43       | 43       | 67        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 47/ 39       |                                     | .2             | 2.4            | 1.2            | .1       |                                    |        |        |        |        |        |       |       |       |       |       |    | 33       | 33       | 53        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 37/ 37       |                                     | .9             | 1.1            | 1.6            |          |                                    |        |        |        |        |        |       |       |       |       |       |    | 29       | 29       | 43        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 36/ 35       |                                     | .6             | 1.1            | .2             |          |                                    |        |        |        |        |        |       |       |       |       |       |    | 16       | 16       | 26        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 34/ 33       |                                     | .4             | .9             |                |          |                                    |        |        |        |        |        |       |       |       |       |       |    | 10       | 10       | 32        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 27/ 31       |                                     | .6             |                | .1             |          |                                    |        |        |        |        |        |       |       |       |       |       |    | 6        | 6        | 23        |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 37/ 29       |                                     | .1             |                |                |          |                                    |        |        |        |        |        |       |       |       |       |       |    | 1        | 1        | 9         |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 27/ 27       |                                     |                |                |                |          |                                    |        |        |        |        |        |       |       |       |       |       |    |          |          | 2         |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 26/ 25       |                                     |                |                |                |          |                                    |        |        |        |        |        |       |       |       |       |       |    |          |          |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 24/ 23       |                                     |                |                |                |          |                                    |        |        |        |        |        |       |       |       |       |       |    |          |          |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 22/ 21       |                                     |                |                |                |          |                                    |        |        |        |        |        |       |       |       |       |       |    |          |          |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 27/ 19       |                                     |                |                |                |          |                                    |        |        |        |        |        |       |       |       |       |       |    |          |          |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| 16/ 17       |                                     |                |                |                |          |                                    |        |        |        |        |        |       |       |       |       |       |    |          |          |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| TOTAL        | .222                                | 5.28           | 1.26           | 1.14           | .7       | 5.2                                | 2.6    | .5     |        |        |        |       |       |       |       |       |    | 821      | 821      | 821       |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| Element (X)  | Z <sub>1</sub>                      | Z <sub>2</sub> | Z <sub>3</sub> | Z <sub>4</sub> | No. Obs. | Mean No. of Hours with Temperature |        |        |        |        |        | Total |       |       |       |       |    |          |          |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| Rel. Hum.    | 4243758                             | 57936          | 70.6           | 13.764         | 821      | ≤ 0 F                              | ≤ 32 F | ≤ 67 F | ≤ 73 F | ≤ 80 F | ≤ 93 F |       |       |       |       |       |    |          |          |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| Dry Bulb     | 2216682                             | 42052          | 51.2           | 8.748          | 821      |                                    | .8     | 3.6    | .5     |        |        |       |       |       |       |       |    |          |          |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| Wet Bulb     | 1830007                             | 38191          | 46.5           | 8.074          | 821      |                                    | 3.9    |        |        |        |        |       |       |       |       |       |    |          |          |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |
| Dew Point    | 1488486                             | 34090          | 41.5           | 9.434          | 821      |                                    | 17.0   |        |        |        |        |       |       |       |       |       |    |          |          |           |  |  |  |  |  |  |  |  |  |  |                    |       |  |  |

## PSYCHROMETRIC SUMMARY

**OCT**  
**MONTH**

PAGE 1 1200-1400  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | TOTAL     | TOTAL |       |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|----------|-------|------------------------------------|-------|--------|-------|--------|-------|--------|-----------|----------|----------|-----------|-------|-------|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16    | 17-18 | 19-20                              | 21-22 | 23-24  | 25-26 | 27-28  | 29-30 | = 31   | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |       |       |  |
| 81           |                                     |     |     |     |     | .1   |       |       | .1       |       |                                    |       |        |       |        |       |        | 2         | 2        |          |           |       |       |  |
| 79           |                                     |     |     |     |     |      | .2    | .1    |          |       |                                    |       |        |       |        |       |        | 3         | 3        |          |           |       |       |  |
| 77           |                                     |     |     |     |     | .1   | .1    | .1    |          |       |                                    |       |        |       |        |       |        | 3         | 3        |          |           |       |       |  |
| 75           |                                     |     |     |     |     | .2   | .4    |       | .4       |       |                                    |       |        |       |        |       |        | 8         | 8        |          |           |       |       |  |
| 73           |                                     |     |     | .1  | .2  | .8   | .2    | .5    |          | .1    |                                    |       |        |       |        |       |        | 17        | 17       |          |           |       |       |  |
| 71           |                                     | .1  | .1  | .5  | .7  | .8   | .5    | .1    | .2       |       |                                    |       |        |       |        |       |        | 26        | 26       | 1        |           |       |       |  |
| 69           | .1                                  | .2  | .4  | 1.0 | 1.2 | 1.3  | 1.1   | .4    |          |       |                                    |       |        |       |        |       |        | 47        | 47       | 1        |           |       |       |  |
| 67           |                                     | .5  | .6  | 1.1 | .6  | 1.6  | .8    | .1    | .1       |       |                                    |       |        |       |        |       |        | 45        | 45       | 7        | 3         |       |       |  |
| 65           | .2                                  | .6  | .1  | 1.5 | 1.0 | 1.0  | .6    | .2    |          |       |                                    |       |        |       |        |       |        | 43        | 43       | 15       |           |       |       |  |
| 63           | .5                                  | .8  | 1.2 | .6  | .7  | 1.3  | .6    | .4    | .1       |       |                                    |       |        |       |        |       |        | 52        | 52       | 24       | 8         |       |       |  |
| 61           | .2                                  | .4  | .6  | 1.1 | 1.5 | 1.7  | .6    | .1    |          |       |                                    |       |        |       |        |       |        | 51        | 51       | 30       | 15        |       |       |  |
| 59           | .2                                  | .5  | 1.0 | 1.9 | 1.8 | .6   | .6    | .1    |          |       |                                    |       |        |       |        |       |        | 56        | 56       | 42       | 17        |       |       |  |
| 57           | .2                                  | .5  | .6  | 2.1 | 1.5 | 1.2  | .4    |       |          |       |                                    |       |        |       |        |       |        | 53        | 53       | 49       | 25        |       |       |  |
| 55           | 1.2                                 | .4  | .7  | 2.2 | 2.2 | .4   | .1    |       |          |       |                                    |       |        |       |        |       |        | 59        | 59       | 56       | 26        |       |       |  |
| 53           | .1                                  | .4  | 1.6 | 1.7 | .7  | .5   | .1    |       |          |       |                                    |       |        |       |        |       |        | 42        | 42       | 61       | 31        |       |       |  |
| 51           | .4                                  | 1.5 | .8  | 2.1 | .8  | .4   |       |       |          |       |                                    |       |        |       |        |       |        | 49        | 49       | 46       | 36        |       |       |  |
| 49           | 1.7                                 | 2.1 | 3.5 | 1.3 | 1.3 | .1   |       |       |          |       |                                    |       |        |       |        |       |        | 83        | 83       | 75       | 34        |       |       |  |
| 47           | 1.2                                 | 1.1 | 1.3 | 2.1 | .4  | .1   |       |       |          |       |                                    |       |        |       |        |       |        | 51        | 51       | 84       | 46        |       |       |  |
| 45           | 1.2                                 | .7  | 1.0 | 1.1 | .2  | .1   |       |       |          |       |                                    |       |        |       |        |       |        | 36        | 36       | 76       | 56        |       |       |  |
| 43           | .5                                  | .8  | .7  | .5  | .1  |      |       |       |          |       |                                    |       |        |       |        |       |        | 22        | 22       | 74       | 65        |       |       |  |
| 41           | 1.2                                 | 1.1 | .8  | .6  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 31        | 31       | 48       | 72        |       |       |  |
| 39           | .4                                  | 1.3 | .8  | .6  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 26        | 26       | 50       | 68        |       |       |  |
| 37           |                                     | .2  | .6  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 7         | 7        | 30       | 67        |       |       |  |
| 35           | .2                                  | .6  | .4  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 10        | 10       | 23       | 54        |       |       |  |
| 33           | .1                                  | .1  | .1  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 3         | 3        | 20       | 39        |       |       |  |
| 31           | .1                                  |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 1         | 1        | 10       | 47        |       |       |  |
| 29           |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          | 4        | 26        |       |       |  |
| 27           |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 36        |       |       |  |
| 25           |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 26        |       |       |  |
| 23           |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 13        |       |       |  |
| 21           |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 8         |       |       |  |
| 19           |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 7         |       |       |  |
| 17           |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 1         |       |       |  |
| Element (X)  | Σ X²                                |     | Σ X |     | Σ   |      | Σ     |       | No. Obs. |       | Mean No. of Hours with Temperature |       |        |       |        |       |        |           |          |          |           |       |       |  |
| Rel. Num.    |                                     |     |     |     |     |      |       |       |          |       | ≤ 6 F                              |       | ≤ 32 F |       | ≥ 67 F |       | ≥ 73 F |           | ≥ 80 F   |          | ≥ 93 F    |       | Total |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          |           |       |       |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          |           |       |       |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          |           |       |       |  |

## PSYCHROMETRIC SUMMARY

**OCT**  
**MONTH**

1200-1400  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**OCT**  
**MONTH**

PAGE 1 1500-1700  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |       |      |      |      |        |       |          |       |                                    |       |        |       |        |       |        |          |          |           |        |  |       |  |  |  |  | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|-----|-------|------|------|------|--------|-------|----------|-------|------------------------------------|-------|--------|-------|--------|-------|--------|----------|----------|-----------|--------|--|-------|--|--|--|--|--------------------|-------|--|--|
|              | 0                                   | 1-2 | 3-4   | 5-6  | 7-8  | 9-10 | 11-12  | 13-14 | 15-16    | 17-18 | 19-20                              | 21-22 | 23-24  | 25-26 | 27-28  | 29-30 | >31    | Dry Bulb | Wet Bulb | Dew Point |        |  |       |  |  |  |  |                    |       |  |  |
| 79 / 79      |                                     |     |       |      |      |      | .1     | .1    | .2       |       |                                    |       |        |       |        |       |        | 4        | 4        |           |        |  |       |  |  |  |  |                    |       |  |  |
| 76 / 77      |                                     |     |       |      | .1   |      | .1     |       |          |       |                                    |       |        |       |        |       |        | 2        | 2        |           |        |  |       |  |  |  |  |                    |       |  |  |
| 76 / 75      |                                     |     |       |      | .2   | .4   | .6     | .2    | .5       |       |                                    |       |        |       |        |       |        | 16       | 16       |           |        |  |       |  |  |  |  |                    |       |  |  |
| 74 / 73      |                                     |     |       |      |      | .5   | 1.0    | .2    | .1       |       | .2                                 |       |        |       |        |       |        | 17       | 17       |           |        |  |       |  |  |  |  |                    |       |  |  |
| 72 / 71      |                                     |     | .1    | .1   | .6   | 1.0  | 1.0    | .4    | .5       | .2    |                                    |       |        |       |        |       |        | 32       | 32       |           |        |  |       |  |  |  |  |                    |       |  |  |
| 71 / 69      |                                     | .1  | .5    | .6   | 1.0  | .6   | 1.3    | 1.6   | .5       |       |                                    |       |        |       |        |       |        | 51       | 51       | 1         |        |  |       |  |  |  |  |                    |       |  |  |
| 68 / 67      |                                     |     | .6    | .4   | .1   | .2   | .5     | 1.0   | .7       | .1    |                                    |       |        |       |        |       |        | 30       | 30       | 6 2       |        |  |       |  |  |  |  |                    |       |  |  |
| 66 / 65      |                                     |     | .4    | 1.2  | 1.3  | 1.1  | 1.6    | .2    | .4       | .1    |                                    |       |        |       |        |       |        | 52       | 52       | 13 1      |        |  |       |  |  |  |  |                    |       |  |  |
| 64 / 63      |                                     | .5  | .1    | .4   | .7   | .6   | 1.1    | 1.0   | .4       | .2    |                                    |       |        |       |        |       |        | 41       | 41       | 27 3      |        |  |       |  |  |  |  |                    |       |  |  |
| 62 / 61      |                                     | .4  | .5    | .7   | 1.2  | 1.2  | 1.2    | .6    | .5       |       |                                    |       |        |       |        |       |        | 52       | 52       | 38 14     |        |  |       |  |  |  |  |                    |       |  |  |
| 61 / 59      |                                     | .6  | .4    | .6   | 1.6  | 2.0  | 2.4    | .2    | .5       |       |                                    |       |        |       |        |       |        | 68       | 68       | 37 19     |        |  |       |  |  |  |  |                    |       |  |  |
| 58 / 57      |                                     | .9  | .1    | .4   | 1.2  | 2.3  | 1.7    | .2    |          |       |                                    |       |        |       |        |       |        | 56       | 56       | 39 21     |        |  |       |  |  |  |  |                    |       |  |  |
| 56 / 55      |                                     | .2  | .2    | .9   | 1.3  | 1.3  | .6     | .4    |          |       |                                    |       |        |       |        |       |        | 41       | 41       | 56 33     |        |  |       |  |  |  |  |                    |       |  |  |
| 54 / 53      |                                     |     | 1.0   | 2.1  | 1.6  | 1.1  | .7     | .1    |          |       |                                    |       |        |       |        |       |        | 54       | 54       | 52 34     |        |  |       |  |  |  |  |                    |       |  |  |
| 52 / 51      |                                     | .4  | 1.8   | .7   | 1.0  | .5   |        |       |          |       |                                    |       |        |       |        |       |        | 36       | 36       | 47 22     |        |  |       |  |  |  |  |                    |       |  |  |
| 50 / 49      |                                     | 1.5 | .9    | 2.8  | 1.3  | .6   |        |       |          |       |                                    |       |        |       |        |       |        | 58       | 58       | 77 27     |        |  |       |  |  |  |  |                    |       |  |  |
| 45 / 47      |                                     | .7  | 1.3   | 2.3  | 2.0  | 1.1  | .4     |       |          |       |                                    |       |        |       |        |       |        | 64       | 64       | 96 45     |        |  |       |  |  |  |  |                    |       |  |  |
| 46 / 45      |                                     | .7  | 1.2   | 2.8  | 1.0  | .5   |        |       |          |       |                                    |       |        |       |        |       |        | 51       | 51       | 64 43     |        |  |       |  |  |  |  |                    |       |  |  |
| 44 / 43      |                                     | .9  | .2    | .7   | .5   |      |        |       |          |       |                                    |       |        |       |        |       |        | 19       | 19       | 66 66     |        |  |       |  |  |  |  |                    |       |  |  |
| 42 / 41      |                                     | 1.0 | .2    | .5   | .9   |      |        |       |          |       |                                    |       |        |       |        |       |        | 21       | 21       | 61 63     |        |  |       |  |  |  |  |                    |       |  |  |
| 40 / 39      |                                     | .9  | .9    | .6   | 1.0  |      |        |       |          |       |                                    |       |        |       |        |       |        | 27       | 27       | 46 72     |        |  |       |  |  |  |  |                    |       |  |  |
| 38 / 37      | .1                                  | .1  | .1    | 1.0  |      |      |        |       |          |       |                                    |       |        |       |        |       |        | 11       | 11       | 34 67     |        |  |       |  |  |  |  |                    |       |  |  |
| 36 / 35      |                                     | .7  | .4    | .4   |      |      |        |       |          |       |                                    |       |        |       |        |       |        | 12       | 12       | 17 65     |        |  |       |  |  |  |  |                    |       |  |  |
| 34 / 33      |                                     |     | .1    | .2   |      |      |        |       |          |       |                                    |       |        |       |        |       |        | 3        | 3        | 23 47     |        |  |       |  |  |  |  |                    |       |  |  |
| 32 / 31      |                                     | .1  | .1    |      |      |      |        |       |          |       |                                    |       |        |       |        |       |        | 2        | 2        | 14 53     |        |  |       |  |  |  |  |                    |       |  |  |
| 30 / 29      |                                     |     |       |      |      |      |        |       |          |       |                                    |       |        |       |        |       |        |          | 5        | 5         | 24     |  |       |  |  |  |  |                    |       |  |  |
| 28 / 27      |                                     |     |       |      |      |      |        |       |          |       |                                    |       |        |       |        |       |        |          |          | 1         | 20     |  |       |  |  |  |  |                    |       |  |  |
| 26 / 25      |                                     |     |       |      |      |      |        |       |          |       |                                    |       |        |       |        |       |        |          |          |           | 34     |  |       |  |  |  |  |                    |       |  |  |
| 24 / 23      |                                     |     |       |      |      |      |        |       |          |       |                                    |       |        |       |        |       |        |          |          |           | 13     |  |       |  |  |  |  |                    |       |  |  |
| 22 / 21      |                                     |     |       |      |      |      |        |       |          |       |                                    |       |        |       |        |       |        |          |          |           | 18     |  |       |  |  |  |  |                    |       |  |  |
| 20 / 19      |                                     |     |       |      |      |      |        |       |          |       |                                    |       |        |       |        |       |        |          |          |           | 11     |  |       |  |  |  |  |                    |       |  |  |
| 18 / 15      |                                     |     |       |      |      |      |        |       |          |       |                                    |       |        |       |        |       |        |          |          |           | 3      |  |       |  |  |  |  |                    |       |  |  |
| TOTAL        |                                     | .1  | 9.6   | 11.2 | 19.4 | 18.7 | 15.0   | 14.4  | 6.3      | 4.3   | .7                                 | .2    |        |       |        |       |        | 820      | 820      | 820       | 820    |  |       |  |  |  |  |                    |       |  |  |
| Element (X)  | ΣX²                                 |     | ΣX    |      | Σ    |      | Σ      |       | No. Obs. |       | Mean No. of Hours with Temperature |       |        |       |        |       |        |          |          |           |        |  |       |  |  |  |  |                    |       |  |  |
| Rel. Hum.    | 2935232                             |     | 47200 |      | 57.6 |      | 16.328 |       | 820      |       | ≥ 0 F                              |       | ≥ 32 F |       | ≥ 67 F |       | ≥ 73 F |          | ≥ 80 F   |           | ≥ 93 F |  | Total |  |  |  |  |                    |       |  |  |
| Dry Bulb     | 2697764                             |     | 46288 |      | 56.4 |      | 10.179 |       | 820      |       |                                    |       | .2     |       | 17.2   |       | 4.4    |          | .2       |           |        |  | 93    |  |  |  |  |                    |       |  |  |
| Wet Bulb     | 1998234                             |     | 39884 |      | 48.4 |      | 8.438  |       | 820      |       |                                    |       | 2.3    |       | .8     |       |        |          |          |           |        |  | 93    |  |  |  |  |                    |       |  |  |
| Dew Point    | 1435073                             |     | 33289 |      | 40.4 |      | 10.127 |       | 820      |       |                                    |       | 20.0   |       | .2     |       |        |          |          |           |        |  | 93    |  |  |  |  |                    |       |  |  |

**USAFETAC** NORM 0-26-5 (QLA) REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

**YEARS**

OCT  
MONTH

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725250 YOUNGSTOWN MAP OH

73-81

YEARS

OCT  
MONTH

PAGE 1 2100-2300  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | TOTAL     | TOTAL    |          |           |
|--------------|-------------------------------------|------|------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|
|              | 0                                   | 1-2  | 3-4  | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |
| 77 / 69      |                                     |      |      | .4  | .2  | .4   |       |       |       |       |       |       |       |       |       |       |      | 8         | 8        |          |           |
| 68 / 67      |                                     |      |      | .1  | .5  |      |       |       |       |       |       |       |       |       |       |       |      | 5         | 5        |          |           |
| 66 / 65      |                                     | .2   |      | .2  | .6  | .2   | .1    |       |       |       |       |       |       |       |       |       |      | 12        | 12       |          |           |
| 64 / 63      |                                     | .2   | .5   | .6  | .4  | .2   |       |       |       |       |       |       |       |       |       |       |      | 16        | 16       | 6        | 2         |
| 62 / 61      |                                     | .4   | .2   | .6  | .2  | .5   | .4    |       |       |       |       |       |       |       |       |       |      | 19        | 19       | 5        | 1         |
| 60 / 59      |                                     | 2.1  | 1.3  | 1.0 | .1  | .7   |       |       |       |       |       |       |       |       |       |       |      | 43        | 43       | 21       | 6         |
| 58 / 57      |                                     | 2.9  | 1.7  | 1.0 | .2  | .4   |       |       |       |       |       |       |       |       |       |       |      | 51        | 51       | 24       | 13        |
| 56 / 55      |                                     | 2.9  | 1.3  | .7  | .9  | .1   | .4    |       |       |       |       |       |       |       |       |       |      | 52        | 52       | 57       | 29        |
| 54 / 53      |                                     | 1.0  | .7   | 1.8 | .4  | .4   | .5    |       |       |       |       |       |       |       |       |       |      | 39        | 39       | 48       | 48        |
| 52 / 51      | .1                                  | .9   | 1.8  | 1.0 | .5  | .6   | .1    |       |       |       |       |       |       |       |       |       |      | 41        | 41       | 30       | 41        |
| 50 / 49      | .1                                  | 1.9  | 3.2  | 1.8 | .9  | .5   |       |       |       |       |       |       |       |       |       |       |      | 69        | 69       | 34       | 23        |
| 48 / 47      | .1                                  | 3.5  | 3.2  | 2.8 | 1.0 |      |       |       |       |       |       |       |       |       |       |       |      | 87        | 87       | 61       | 33        |
| 46 / 45      |                                     | 4.5  | 2.6  | 1.6 | .7  |      |       |       |       |       |       |       |       |       |       |       |      | 77        | 77       | 74       | 35        |
| 44 / 43      |                                     | 2.4  | 3.2  | .6  | .2  | .2   |       |       |       |       |       |       |       |       |       |       |      | 55        | 55       | 86       | 53        |
| 42 / 41      |                                     | 3.8  | 3.6  | .9  | .1  | .1   |       |       |       |       |       |       |       |       |       |       |      | 70        | 70       | 80       | 85        |
| 40 / 39      |                                     | 4.3  | 2.3  | .2  | .5  |      |       |       |       |       |       |       |       |       |       |       |      | 60        | 60       | 82       | 69        |
| 38 / 37      | .1                                  | 2.1  | 1.5  | .7  |     |      |       |       |       |       |       |       |       |       |       |       |      | 36        | 36       | 70       | 69        |
| 36 / 35      |                                     | 1.9  | .6   | .2  |     |      |       |       |       |       |       |       |       |       |       |       |      | 23        | 23       | 46       | 61        |
| 34 / 33      |                                     | 1.8  | 1.2  | .4  |     |      |       |       |       |       |       |       |       |       |       |       |      | 28        | 28       | 30       | 58        |
| 32 / 31      |                                     | .6   | 1.0  |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 13        | 13       | 28       | 77        |
| 30 / 29      | .1                                  | 1.1  | .4   |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 13        | 13       | 18       | 35        |
| 28 / 27      |                                     | .1   |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 1         | 1        | 17       | 21        |
| 26 / 25      |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          | 1        | 24        |
| 24 / 23      |                                     | .5   |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      | 4         | 4        | 4        | 8         |
| 22 / 21      |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 10        |
| 20 / 19      |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 14        |
| 18 / 17      |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 5         |
| 16 / 15      |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 2         |
| TOTAL        | .639                                | 2.30 | 3.16 | 7.4 | 4.4 | 1.5  |       |       |       |       |       |       |       |       |       |       |      | 822       | 822      | 822      | 822       |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |
|              |                                     |      |      |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |

FORM 0-26-5 (OL A) REVERSE REVISIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

|         |                   |
|---------|-------------------|
| 725257  | YOUNGSTOWN MAP OH |
| STATION | STATION NAME      |

73-81

**YEARS**

OCT  
MONTH

PAGE 1

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

**73-81**

YEARS

**OCT**  
**MONTH**

**PAGE 2**

ALL  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           | TOTAL    | TOTAL    |           |  |
|--------------|-------------------------------------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----------|----------|----------|-----------|--|
|              | 0                                   | 1-2  | 3-4  | 5-6  | 7-8  | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | +31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |
| TOTAL        | .8                                  | 32.7 | 25.1 | 17.0 | 10.7 | 6.6  | 4.3   | 1.9   | .8    | .2    | .0    |       |       |       |       |       |     |           | 6569     | 6574     | 6569      |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |
|              |                                     |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |     |           |          |          |           |  |

## PSYCHROMETRIC SUMMARY

YEARS

**NO. 1**  
**MONTH**

PAGE 1

0000-0200  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEASER

**NOV**  
**MONTH**

PAGE 2 0000-0200  
HOURS (L. S. T.)

[illegible]

0-26-5 (OLA)

**USAFETAC**

## PSYCHROMETRIC SUMMARY

NOV  
MONTH

0300-0500  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |      |       |     |            |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | TOTAL     |  | TOTAL |  |
|--------------|-------------------------------------|------|-------|-----|------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|--|-------|--|
|              | 0                                   | 1-2  | 3-4   | 5-6 | 7-8        | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |       |  |
| 4/ 63        |                                     | .1   | .4    | .3  |            |      |       |       |       |       |       |       |       |       |       |       |      | 6         | 6        |          |           |  |       |  |
| 6/ 61        |                                     | .6   | .5    | .3  |            |      |       |       |       |       |       |       |       |       |       |       |      | 11        | 11       | 5        |           |  |       |  |
| 11/ 59       |                                     | 1.1  | .9    | .3  | .1         |      |       |       |       |       |       |       |       |       |       |       |      | 19        | 19       | 4        | 9         |  |       |  |
| 58/ 57       |                                     | 1.5  | .9    | .1  | .5         |      |       |       |       |       |       |       |       |       |       |       |      | 24        | 24       | 25       | 4         |  |       |  |
| 56/ 55       | .4                                  | 1.4  |       | .5  | .5         | .1   |       |       |       |       |       |       |       |       |       |       |      | 23        | 23       | 18       | 22        |  |       |  |
| 54/ 53       |                                     | .8   | .1    | .5  |            |      |       |       |       |       |       |       |       |       |       |       |      | 11        | 11       | 16       | 22        |  |       |  |
| 52/ 51       | .1                                  | .9   | 1.0   | .4  | .8         |      | .1    |       |       |       |       |       |       |       |       |       |      | 26        | 26       | 14       | 9         |  |       |  |
| 50/ 49       | .1                                  | .9   | .8    | .5  | .5         | .1   | .1    |       |       |       |       |       |       |       |       |       |      | 24        | 24       | 16       | 13        |  |       |  |
| 48/ 47       |                                     | .5   | .8    | .5  | .6         |      |       |       |       |       |       |       |       |       |       |       |      | 19        | 19       | 24       | 9         |  |       |  |
| 46/ 45       |                                     | 1.5  | 1.7   | .8  | .6         | .3   |       |       |       |       |       |       |       |       |       |       |      | 38        | 38       | 19       | 20        |  |       |  |
| 44/ 43       | .3                                  | 1.5  | 2.7   | .4  |            | .3   |       |       |       |       |       |       |       |       |       |       |      | 40        | 40       | 29       | 19        |  |       |  |
| 42/ 41       |                                     | 2.2  | 1.9   | .5  | .1         |      |       |       |       |       |       |       |       |       |       |       |      | 37        | 37       | 37       | 21        |  |       |  |
| 40/ 39       | .4                                  | 3.0  | 1.4   | .1  |            |      |       |       |       |       |       |       |       |       |       |       |      | 45        | 45       | 53       | 28        |  |       |  |
| 38/ 37       |                                     | 3.3  | 2.7   | .3  |            |      |       |       |       |       |       |       |       |       |       |       |      | 49        | 49       | 52       | 30        |  |       |  |
| 36/ 35       |                                     | 5.4  | 3.4   |     |            |      |       |       |       |       |       |       |       |       |       |       |      | 69        | 69       | 39       | 55        |  |       |  |
| 34/ 33       |                                     | 6.0  | 2.9   | .4  |            |      |       |       |       |       |       |       |       |       |       |       |      | 73        | 73       | 85       | 36        |  |       |  |
| 32/ 31       | .1                                  | 7.2  | 4.0   | .9  |            |      |       |       |       |       |       |       |       |       |       |       |      | 95        | 95       | 69       | 85        |  |       |  |
| 30/ 29       | 1.1                                 | 4.3  | 1.9   |     |            |      |       |       |       |       |       |       |       |       |       |       |      | 58        | 58       | 98       | 64        |  |       |  |
| 28/ 27       | .4                                  | 4.1  | .5    |     |            |      |       |       |       |       |       |       |       |       |       |       |      | 39        | 39       | 62       | 64        |  |       |  |
| 26/ 25       | .4                                  | 3.2  | .4    |     |            |      |       |       |       |       |       |       |       |       |       |       |      | 31        | 31       | 47       | 60        |  |       |  |
| 24/ 23       | .5                                  | 1.7  | .3    |     |            |      |       |       |       |       |       |       |       |       |       |       |      | 19        | 19       | 32       | 55        |  |       |  |
| 22/ 21       | .5                                  | 1.0  |       |     |            |      |       |       |       |       |       |       |       |       |       |       |      | 12        | 12       | 20       | 51        |  |       |  |
| 20/ 19       | .4                                  | .8   |       |     |            |      |       |       |       |       |       |       |       |       |       |       |      | 9         | 10       | 10       | 37        |  |       |  |
| 18/ 17       |                                     | .3   |       |     |            |      |       |       |       |       |       |       |       |       |       |       |      | 2         | 2        | 3        | 38        |  |       |  |
| 16/ 15       |                                     | .1   |       |     |            |      |       |       |       |       |       |       |       |       |       |       |      | 1         | 1        | 2        | 13        |  |       |  |
| 14/ 13       |                                     |      |       |     |            |      |       |       |       |       |       |       |       |       |       |       |      |           |          | 1        | 8         |  |       |  |
| 12/ 11       |                                     |      |       |     |            |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 7         |  |       |  |
| 10/ 9        |                                     |      |       |     |            |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 1         |  |       |  |
| 8/ 1         | .4                                  |      |       |     |            |      |       |       |       |       |       |       |       |       |       |       |      | 3         | 3        | 3        |           |  |       |  |
| 6/ -3        |                                     |      |       |     |            |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 1         |  |       |  |
| 4/ -5        |                                     |      |       |     |            |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          | 2         |  |       |  |
| TOTAL        | 5.1                                 | 54.3 | 29.1  | 6.6 | 3.8        | .8   | .3    |       |       |       |       |       |       |       |       |       |      | 783       | 784      |          | 783       |  |       |  |
| Element (X)  | ΣX'                                 |      | ΣX    |     | Σ          | Σ    |       | Σ     |       | Σ     |       | Σ     |       | Σ     |       | Σ     |      | Σ         |          | Σ        |           |  |       |  |
| Rel. Hum.    | 4850855                             |      | 60953 |     | 77.811.639 |      | 783   |       | 10 F  |       | 12 F  |       | 16 F  |       | 17 F  |       | 18 F |           | 19 F     |          |           |  |       |  |
| Dry Bulb     | 1224620                             |      | 29874 |     | 38.110.497 |      | 784   |       |       |       | 31.0  |       |       |       |       |       |      |           | 90       |          |           |  |       |  |
| Wet Bulb     | 1068163                             |      | 27863 |     | 35.6 9.903 |      | 783   |       |       |       | 39.9  |       |       |       |       |       |      |           | 90       |          |           |  |       |  |
| Dew Point    | 872634                              |      | 24708 |     | 31.610.903 |      | 783   |       | .3    |       | 55.9  |       |       |       |       |       |      |           | 90       |          |           |  |       |  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725257  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

NOV  
MONTH

PAGE 1 0600-0800  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          |                                    |          |          |           |        |        |  |       |  |  | TOTAL | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------------------------------------|----------|----------|-----------|--------|--------|--|-------|--|--|-------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31     | D.B./W.B.                          | Dry Bulb | Wet Bulb | Dew Point |        |        |  |       |  |  |       |       |  |  |
| 64/ 63       |                                     | .5  | .4  | .5  |     |      |       |       |       |       |       |       |       |       |       |       |          | 11                                 | 11       |          |           |        |        |  |       |  |  |       |       |  |  |
| 62/ 61       |                                     | .6  |     | .3  |     |      |       |       |       |       |       |       |       |       |       |       |          | 7                                  | 7        |          |           |        |        |  |       |  |  |       |       |  |  |
| 57/ 59       |                                     | .8  | .8  | .3  |     |      |       |       |       |       |       |       |       |       |       |       |          | 14                                 | 14       |          |           |        |        |  |       |  |  |       |       |  |  |
| 56/ 57       | .1                                  | 1.4 | .9  | .3  |     | .3   |       |       |       |       |       |       |       |       |       |       |          | 23                                 | 23       | 15       | 11        |        |        |  |       |  |  |       |       |  |  |
| 56/ 55       | .4                                  | 1.5 | .3  | .6  | .3  | .1   |       |       |       |       |       |       |       |       |       |       |          | 25                                 | 25       | 19       | 13        |        |        |  |       |  |  |       |       |  |  |
| 47/ 53       | .1                                  | 1.4 | .3  | .3  | .1  |      |       |       |       |       |       |       |       |       |       |       |          | 17                                 | 17       | 22       | 18        |        |        |  |       |  |  |       |       |  |  |
| 42/ 51       | .4                                  | 1.0 | .6  | .6  | .6  |      |       |       |       |       |       |       |       |       |       |       |          | 26                                 | 26       | 18       | 18        |        |        |  |       |  |  |       |       |  |  |
| 57/ 49       |                                     | .1  | .5  | .8  | .5  |      |       |       |       |       |       |       |       |       |       |       |          | 15                                 | 15       | 16       | 17        |        |        |  |       |  |  |       |       |  |  |
| 48/ 47       | .1                                  | 1.0 | .1  |     | .8  | .3   |       |       |       |       |       |       |       |       |       |       |          | 18                                 | 18       | 13       | 9         |        |        |  |       |  |  |       |       |  |  |
| 46/ 45       | .1                                  | 2.1 | 1.4 | .1  |     | .1   |       |       |       |       |       |       |       |       |       |       |          | 31                                 | 31       | 20       | 14        |        |        |  |       |  |  |       |       |  |  |
| 44/ 43       |                                     | 1.8 | 1.9 | .5  |     |      |       |       |       |       |       |       |       |       |       |       |          | 33                                 | 33       | 30       | 12        |        |        |  |       |  |  |       |       |  |  |
| 42/ 41       |                                     | 2.0 | 2.0 | .5  |     |      |       |       |       |       |       |       |       |       |       |       |          | 36                                 | 36       | 34       | 25        |        |        |  |       |  |  |       |       |  |  |
| 40/ 39       |                                     | 4.5 | 2.0 |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 52                                 | 52       | 35       | 28        |        |        |  |       |  |  |       |       |  |  |
| 38/ 37       | .3                                  | 3.3 | .9  | .1  |     |      |       |       |       |       |       |       |       |       |       |       |          | 36                                 | 36       | 66       | 35        |        |        |  |       |  |  |       |       |  |  |
| 36/ 35       | .3                                  | 5.9 | 3.9 | .5  |     |      |       |       |       |       |       |       |       |       |       |       |          | 84                                 | 84       | 36       | 45        |        |        |  |       |  |  |       |       |  |  |
| 34/ 33       | .5                                  | 7.2 | 3.1 | .4  |     |      |       |       |       |       |       |       |       |       |       |       |          | 89                                 | 89       | 74       | 38        |        |        |  |       |  |  |       |       |  |  |
| 32/ 31       | .8                                  | 7.5 | 2.5 | .5  |     |      |       |       |       |       |       |       |       |       |       |       |          | 90                                 | 90       | 96       | 82        |        |        |  |       |  |  |       |       |  |  |
| 30/ 29       | 1.5                                 | 5.5 | .6  |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 61                                 | 61       | 102      | 83        |        |        |  |       |  |  |       |       |  |  |
| 28/ 27       | .1                                  | 2.8 | 1.4 |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 34                                 | 34       | 59       | 65        |        |        |  |       |  |  |       |       |  |  |
| 26/ 25       | .5                                  | 3.9 | .6  |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 40                                 | 40       | 43       | 66        |        |        |  |       |  |  |       |       |  |  |
| 24/ 23       | .1                                  | 2.1 | .4  |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 21                                 | 21       | 37       | 47        |        |        |  |       |  |  |       |       |  |  |
| 22/ 21       | .5                                  | .4  | .4  |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 10                                 | 10       | 21       | 53        |        |        |  |       |  |  |       |       |  |  |
| 20/ 19       | .6                                  | .9  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 12                                 | 12       | 8        | 32        |        |        |  |       |  |  |       |       |  |  |
| 18/ 17       | .3                                  | .3  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 4                                  | 4        | 11       | 35        |        |        |  |       |  |  |       |       |  |  |
| 16/ 15       |                                     | .5  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 4                                  | 4        | 1        | 16        |        |        |  |       |  |  |       |       |  |  |
| 14/ 13       |                                     | .1  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 1                                  | 1        | 3        | 8         |        |        |  |       |  |  |       |       |  |  |
| 12/ 11       |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          |                                    |          | 1        | 10        |        |        |  |       |  |  |       |       |  |  |
| 10/ 9        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          |                                    |          |          | 3         |        |        |  |       |  |  |       |       |  |  |
| 8/ 7         |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          |                                    |          |          | 1         |        |        |  |       |  |  |       |       |  |  |
| 4/ 3         | .1                                  | .1  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 2                                  | 2        | 1        |           |        |        |  |       |  |  |       |       |  |  |
| 2/ 1         | .1                                  |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          | 1                                  | 1        | 2        |           |        |        |  |       |  |  |       |       |  |  |
| -2/ -3       |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          |                                    |          |          | 2         |        |        |  |       |  |  |       |       |  |  |
| -4/ -5       |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          |                                    |          |          | 1         |        |        |  |       |  |  |       |       |  |  |
| Element (X)  | Σ X'                                |     |     | Σ X |     |      | Σ     | Σ     |       |       | Σ     |       |       | Σ     |       |       | No. Obs. | Mean No. of Hours with Temperature |          |          |           |        |        |  | Total |  |  |       |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          | ≤ 0 F                              | ≤ 32 F   | ≥ 67 F   | ≥ 73 F    | ≥ 80 F | ≥ 93 F |  |       |  |  |       |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          |                                    |          |          |           |        |        |  |       |  |  |       |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          |                                    |          |          |           |        |        |  |       |  |  |       |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |          |                                    |          |          |           |        |        |  |       |  |  |       |       |  |  |

FORM 8-26-5 (OL A) REPRODUCED BY THE ARMY AIRCRAFT ENGINEERING CENTER  
USAFETAC

## PSYCHROMETRIC SUMMARY

**NOV**  
**MONTH**

0600-0800  
HOURS (L. S. T.)

[illegible]





## PSYCHROMETRIC SUMMARY

**YEARS**

**NOV**  
**MONTH**

PAGE 2 0900-1100  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

NOV  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

[illegible]

USAFETAC FORM 0-26-5 (OLA) DELETED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

## PSYCHROMETRIC SUMMARY

NOV  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

**NO**

PAGE 2 1500-1700  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-81

YEARS

**NOV**  
**MONTH**

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

YEARS

**NOV**  
**MONTH**

PAGE 2 1800-2000  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

NOV  
MONTH

PAGE 1

2100-2300  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           | TOTAL | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|-----------|----------|----------|-----------|-------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |       |       |  |  |
| 6/ 65        |                                     |     | .5  | .3  |     |      |       |       |       |       |       |       |       |       |       |       |    | 6         | 6        |          |           |       |       |  |  |
| 4/ 63        |                                     |     | .5  | .6  |     |      |       |       |       |       |       |       |       |       |       |       |    | 9         | 9        |          |           |       |       |  |  |
| 2/ 61        |                                     |     | 1.0 | .3  | .3  |      |       |       |       |       |       |       |       |       |       |       |    | 12        | 12       |          |           |       |       |  |  |
| 5/ 59        |                                     | 1.0 | 1.0 | .4  | .5  | .1   | .1    |       |       |       |       |       |       |       |       |       |    | 33        | 33       | 6        | 3         |       |       |  |  |
| 5/ 57        |                                     | 1.4 | .4  | .3  | .1  | .4   |       |       |       |       |       |       |       |       |       |       |    | 20        | 20       | 24       | 10        |       |       |  |  |
| 5/ 55        | .4                                  | .4  | 1.0 | .3  |     | .1   | .1    |       |       |       |       |       |       |       |       |       |    | 18        | 18       | 25       | 20        |       |       |  |  |
| 4/ 53        |                                     | 1.4 | .8  | .1  | .5  | .3   | .1    | .4    |       |       |       |       |       |       |       |       |    | 28        | 28       | 17       | 19        |       |       |  |  |
| 2/ 51        |                                     | 1.0 | 1.3 | .8  | .5  | .3   |       |       |       |       |       |       |       |       |       |       |    | 30        | 30       | 20       | 18        |       |       |  |  |
| 5/ 49        |                                     | .6  | .8  | .6  | .3  | .4   |       |       |       |       |       |       |       |       |       |       |    | 21        | 21       | 25       | 18        |       |       |  |  |
| 4/ 47        | .3                                  | 1.3 | .6  | 1.9 | .4  | .6   |       |       |       |       |       |       |       |       |       |       |    | 40        | 40       | 19       | 23        |       |       |  |  |
| 4/ 45        | .3                                  | 1.1 | .5  | .9  | 1.3 | .1   |       |       |       |       |       |       |       |       |       |       |    | 33        | 33       | 33       | 22        |       |       |  |  |
| 4/ 43        | .3                                  | 1.8 | 1.5 | 1.3 | .1  | .1   |       |       |       |       |       |       |       |       |       |       |    | 40        | 40       | 33       | 15        |       |       |  |  |
| 2/ 41        |                                     | 1.1 | 1.5 | 1.4 | .3  |      |       |       |       |       |       |       |       |       |       |       |    | 34        | 34       | 36       | 19        |       |       |  |  |
| 4/ 39        | .3                                  | 2.2 | 3.0 | 1.5 | .4  |      |       |       |       |       |       |       |       |       |       |       |    | 58        | 58       | 44       | 29        |       |       |  |  |
| 3/ 37        |                                     | 3.3 | 1.4 | .6  |     |      |       |       |       |       |       |       |       |       |       |       |    | 42        | 42       | 51       | 26        |       |       |  |  |
| 3/ 35        | .1                                  | 3.9 | 3.0 | .6  | .1  |      |       |       |       |       |       |       |       |       |       |       |    | 62        | 62       | 58       | 43        |       |       |  |  |
| 3/ 33        |                                     | 5.2 | 3.5 | .3  |     |      |       |       |       |       |       |       |       |       |       |       |    | 71        | 71       | 70       | 41        |       |       |  |  |
| 2/ 31        | .4                                  | 5.9 | 5.7 | .1  |     |      |       |       |       |       |       |       |       |       |       |       |    | 96        | 96       | 71       | 68        |       |       |  |  |
| 3/ 29        | .1                                  | 4.2 | 1.5 |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 46        | 46       | 84       | 65        |       |       |  |  |
| 2/ 27        | .4                                  | 2.9 | .5  |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 30        | 30       | 76       | 78        |       |       |  |  |
| 2/ 25        |                                     | 2.9 | .9  |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 30        | 30       | 33       | 59        |       |       |  |  |
| 24/ 23       | .1                                  | .8  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 7         | 7        | 29       | 42        |       |       |  |  |
| 2/ 21        | .3                                  | .8  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 8         | 9        | 14       | 70        |       |       |  |  |
| 2/ 19        | .3                                  | .6  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 7         | 7        | 3        | 49        |       |       |  |  |
| 1/ 17        | .4                                  |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 3         | 3        | 8        | 28        |       |       |  |  |
| 1/ 15        |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          | 10        |       |       |  |  |
| 14/ 13       |                                     | .1  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 1         | 1        |          | 3         |       |       |  |  |
| 12/ 11       |                                     | .3  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 2         | 2        | 1        | 5         |       |       |  |  |
| 1/ 9         |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          | 2        | 1         |       |       |  |  |
| 5/ 7         |                                     | .3  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 2         | 2        | 1        |           |       |       |  |  |
| 1/ 5         |                                     | .1  |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    | 1         | 1        | 2        |           |       |       |  |  |
| 4/ 3         |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          | 2         |       |       |  |  |
| 2/ 1         |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          | 1         |       |       |  |  |
| -2/ -3       |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          | 3         |       |       |  |  |
| Element (X)  | Σ X <sup>2</sup>                    |     | Σ X |     | Σ   |      | Σ     |       | Σ     |       | Σ     |       | Σ     |       | Σ     |       | Σ  |           | Σ        |          | Σ         |       |       |  |  |
| Ref. Num.    |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |       |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |       |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |       |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |    |           |          |          |           |       |       |  |  |

FORM 12-64 0-36-5 (O.L.A.) REPRODUCED BY THE AIR FORCE

USAFETAC

## PSYCHROMETRIC SUMMARY

**YEARS**

**NOV**  
**MONTH**

PAGE 2 2100-2300  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

NOV  
MONTH

ALL  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |          |          |           |        | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|----------|-------|------------------------------------|-------|--------|-------|--------|-------|--------|----------|----------|-----------|--------|--------------------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16    | 17-18 | 19-20                              | 21-22 | 23-24  | 25-26 | 27-28  | 29-30 | 31     | Dry Bulb | Wet Bulb | Dew Point |        |                    |       |  |  |
| 74/ 73       |                                     |     |     |     | .0  | .1   |       |       |          | .0    |                                    |       |        |       |        |       |        | 9        | 9        |           |        |                    |       |  |  |
| 72/ 71       |                                     |     |     |     | .1  | .1   |       |       | .0       | .0    |                                    |       |        |       |        |       |        | 18       | 18       |           |        |                    |       |  |  |
| 70/ 69       |                                     |     |     | .1  | .2  | .0   | .0    | .1    |          |       |                                    |       |        |       |        |       |        | 30       | 30       |           |        |                    |       |  |  |
| 68/ 67       |                                     |     | .0  | .2  | .2  | .0   | .2    | .0    |          |       |                                    |       |        |       |        |       |        | 40       | 40       |           |        |                    |       |  |  |
| 66/ 65       |                                     | .1  | .3  | .2  | .1  | .0   | .1    | .1    | .1       |       |                                    |       |        |       |        |       |        | 58       | 58       | 2         |        |                    |       |  |  |
| 64/ 63       |                                     | .2  | .3  | .5  | .1  | .2   | .2    | .0    | .1       |       |                                    |       |        |       |        |       |        | 112      | 112      | 44        | 3      |                    |       |  |  |
| 62/ 61       |                                     | .6  | .5  | .3  | .2  | .3   | .2    | .1    | .2       |       |                                    |       |        |       |        |       |        | 144      | 144      | 64        | 12     |                    |       |  |  |
| 60/ 59       |                                     | .8  | .7  | .3  | .3  | .3   | .1    | .1    | .0       |       |                                    |       |        |       |        |       |        | 165      | 165      | 80        | 77     |                    |       |  |  |
| 58/ 57       | .0                                  | 1.2 | .7  | .3  | .4  | .3   | .1    | .1    | .0       |       |                                    |       |        |       |        |       |        | 199      | 199      | 162       | 88     |                    |       |  |  |
| 56/ 55       | .2                                  | .8  | .6  | .5  | .5  | .5   | .2    | .0    |          |       |                                    |       |        |       |        |       |        | 210      | 210      | 162       | 135    |                    |       |  |  |
| 54/ 53       | .1                                  | .9  | .4  | .6  | .5  | .4   | .1    | .2    | .0       |       |                                    |       |        |       |        |       |        | 192      | 192      | 160       | 152    |                    |       |  |  |
| 52/ 51       | .1                                  | .8  | 1.0 | .5  | .8  | .2   | .1    |       |          |       |                                    |       |        |       |        |       |        | 221      | 221      | 165       | 110    |                    |       |  |  |
| 50/ 49       | .1                                  | .8  | .7  | .8  | .6  | .3   | .1    | .0    |          |       |                                    |       |        |       |        |       |        | 217      | 217      | 192       | 132    |                    |       |  |  |
| 48/ 47       | .1                                  | .9  | .5  | .9  | .8  | .3   | .1    |       |          |       |                                    |       |        |       |        |       |        | 221      | 221      | 219       | 133    |                    |       |  |  |
| 46/ 45       | .1                                  | 1.6 | 1.1 | 1.0 | .9  | .2   | .0    |       |          |       |                                    |       |        |       |        |       |        | 307      | 307      | 247       | 177    |                    |       |  |  |
| 44/ 43       | .1                                  | 1.5 | 1.9 | 1.1 | .6  | .2   |       |       |          |       |                                    |       |        |       |        |       |        | 339      | 340      | 276       | 177    |                    |       |  |  |
| 42/ 41       | .0                                  | 1.6 | 1.7 | 1.6 | .5  | .1   |       |       |          |       |                                    |       |        |       |        |       |        | 354      | 354      | 305       | 206    |                    |       |  |  |
| 40/ 39       | .2                                  | 2.1 | 2.7 | 1.2 | .3  | .0   |       |       |          |       |                                    |       |        |       |        |       |        | 418      | 418      | 367       | 214    |                    |       |  |  |
| 38/ 37       | .1                                  | 2.4 | 2.3 | 1.2 | .1  |      |       |       |          |       |                                    |       |        |       |        |       |        | 386      | 386      | 436       | 262    |                    |       |  |  |
| 36/ 35       | .1                                  | 3.7 | 3.9 | .9  | .1  |      |       |       |          |       |                                    |       |        |       |        |       |        | 543      | 543      | 457       | 344    |                    |       |  |  |
| 34/ 33       | .1                                  | 4.8 | 3.4 | .4  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 554      | 554      | 547       | 303    |                    |       |  |  |
| 32/ 31       | .3                                  | 5.7 | 3.7 | .3  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 632      | 632      | 662       | 615    |                    |       |  |  |
| 30/ 29       | .7                                  | 3.5 | 1.3 | .0  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 346      | 346      | 659       | 564    |                    |       |  |  |
| 28/ 27       | .3                                  | 2.4 | .7  | .0  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 216      | 216      | 446       | 551    |                    |       |  |  |
| 26/ 25       | .1                                  | 2.2 | .7  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 192      | 192      | 238       | 563    |                    |       |  |  |
| 24/ 23       | .1                                  | .9  | .2  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 76       | 76       | 199       | 334    |                    |       |  |  |
| 22/ 21       | .3                                  | .4  | .1  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 51       | 52       | 97        | 436    |                    |       |  |  |
| 20/ 19       | .3                                  | .4  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 42       | 43       | 38        | 341    |                    |       |  |  |
| 18/ 17       | .1                                  | .1  | .0  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 17       | 17       | 29        | 195    |                    |       |  |  |
| 16/ 15       |                                     | .2  | .0  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 13       | 13       | 8         | 88     |                    |       |  |  |
| 14/ 13       |                                     | .1  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 5        | 5        | 12        | 49     |                    |       |  |  |
| 12/ 11       |                                     | .1  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 4        | 4        | 6         | 35     |                    |       |  |  |
| 10/ 9        |                                     | .0  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 2        | 2        | 5         | 13     |                    |       |  |  |
| 8/ 7         |                                     | .0  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 3        | 3        | 3         | 4      |                    |       |  |  |
| Element (X)  | Σ H <sup>2</sup>                    |     | Σ H |     | Σ   |      | Σ     |       | No. Obs. |       | Mean No. of Hours with Temperature |       |        |       |        |       |        |          |          |           |        |                    |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |          |       | ≤ 6 F                              |       | ≤ 32 F |       | ≤ 67 F |       | ≤ 73 F |          | ≤ 80 F   |           | ≤ 93 F |                    | Total |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |          |          |           |        |                    |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |          |          |           |        |                    |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |          |          |           |        |                    |       |  |  |

## PSYCHROMETRIC SUMMARY

725250                      YOUNGSTOWN MAP OH  
STATION                                      STATION NAME

73-81

YEARS

NOV  
MONTH

**PAGE 2**

ALL  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

725250      YOUNGSTOWN MAP OH  
STATION      STATION

73-81

DEC  
MONTH

PAGE 1 0000-0200  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          |           |  |       |  |  |  |  |  | TOTAL | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|----------|-------|------------------------------------|-------|--------|-------|--------|-------|--------|-----------|----------|----------|-----------|--|-------|--|--|--|--|--|-------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16    | 17-18 | 19-20                              | 21-22 | 23-24  | 25-26 | 27-28  | 29-30 | ≥ 31   | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |       |  |  |  |  |  |       |       |  |  |
| 59           |                                     |     |     | .2  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 2         | 2        |          |           |  |       |  |  |  |  |  |       |       |  |  |
| 57           |                                     |     |     | .5  | .1  | .1   |       |       |          |       |                                    |       |        |       |        |       |        | 6         | 6        |          |           |  |       |  |  |  |  |  |       |       |  |  |
| 55           |                                     | .4  |     | .2  | .1  | .2   |       |       |          |       |                                    |       |        |       |        |       |        | 8         | 8        |          |           |  |       |  |  |  |  |  |       |       |  |  |
| 53           |                                     | .4  |     | .2  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 5         | 5        | 7        | 1         |  |       |  |  |  |  |  |       |       |  |  |
| 51           |                                     | .4  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 3         | 3        | 6        | 5         |  |       |  |  |  |  |  |       |       |  |  |
| 49           |                                     | .7  | .1  | .4  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 10        | 10       | 6        | 2         |  |       |  |  |  |  |  |       |       |  |  |
| 47           | .1                                  | 1.3 | .2  |     |     | .1   |       |       |          |       |                                    |       |        |       |        |       |        | 15        | 15       | 12       | 13        |  |       |  |  |  |  |  |       |       |  |  |
| 45           |                                     | .5  | .8  |     | .5  |      |       |       |          |       |                                    |       |        |       |        |       |        | 15        | 15       | 15       | 7         |  |       |  |  |  |  |  |       |       |  |  |
| 43           |                                     | .4  | .6  |     | .1  | .4   |       |       |          |       |                                    |       |        |       |        |       |        | 12        | 12       | 8        | 11        |  |       |  |  |  |  |  |       |       |  |  |
| 41           |                                     | .5  | .2  | .2  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 8         | 8        | 10       | 9         |  |       |  |  |  |  |  |       |       |  |  |
| 39           | .2                                  | 1.5 | .6  | .6  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 24        | 24       | 18       | 8         |  |       |  |  |  |  |  |       |       |  |  |
| 37           | .2                                  | 1.6 | 1.1 |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 24        | 24       | 17       | 18        |  |       |  |  |  |  |  |       |       |  |  |
| 35           | .7                                  | 3.6 | 2.2 | 1.6 |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 67        | 67       | 33       | 19        |  |       |  |  |  |  |  |       |       |  |  |
| 33           | .1                                  | 5.1 | 1.7 | .4  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 60        | 60       | 53       | 16        |  |       |  |  |  |  |  |       |       |  |  |
| 31           | 1.0                                 | 7.1 | 5.4 | 1.0 |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 120       | 120      | 81       | 61        |  |       |  |  |  |  |  |       |       |  |  |
| 29           | 1.1                                 | 3.3 | 4.6 |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 74        | 74       | 79       | 49        |  |       |  |  |  |  |  |       |       |  |  |
| 27           | .7                                  | 4.6 | 1.8 | .1  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 60        | 60       | 74       | 47        |  |       |  |  |  |  |  |       |       |  |  |
| 25           | .5                                  | 6.1 | 1.8 |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 69        | 69       | 102      | 56        |  |       |  |  |  |  |  |       |       |  |  |
| 23           |                                     | 3.6 | .8  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 37        | 37       | 66       | 33        |  |       |  |  |  |  |  |       |       |  |  |
| 21           | .5                                  | 3.6 | .5  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 38        | 38       | 41       | 73        |  |       |  |  |  |  |  |       |       |  |  |
| 19           | .5                                  | 5.2 | .1  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 48        | 48       | 39       | 88        |  |       |  |  |  |  |  |       |       |  |  |
| 17           | .7                                  | 2.9 |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 30        | 30       | 54       | 64        |  |       |  |  |  |  |  |       |       |  |  |
| 15           | .2                                  | 1.9 |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 18        | 18       | 20       | 43        |  |       |  |  |  |  |  |       |       |  |  |
| 13           |                                     | 1.3 |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 11        | 11       | 13       | 54        |  |       |  |  |  |  |  |       |       |  |  |
| 11           | .7                                  | 1.2 |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 16        | 16       | 18       | 41        |  |       |  |  |  |  |  |       |       |  |  |
| 9            | 1.0                                 | .6  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 13        | 13       | 17       | 24        |  |       |  |  |  |  |  |       |       |  |  |
| 7            | .2                                  | .4  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 5         | 5        | 6        | 23        |  |       |  |  |  |  |  |       |       |  |  |
| 5            |                                     | .7  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 6         | 6        | 9        | 15        |  |       |  |  |  |  |  |       |       |  |  |
| 3            | 1.2                                 | .1  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 11        | 11       | 11       | 8         |  |       |  |  |  |  |  |       |       |  |  |
| 1            | .5                                  | .1  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 5         | 5        | 5        | 11        |  |       |  |  |  |  |  |       |       |  |  |
| -1           | .2                                  |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 2         | 2        | 2        | 12        |  |       |  |  |  |  |  |       |       |  |  |
| -3           | .5                                  |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 4         | 4        | 4        | 8         |  |       |  |  |  |  |  |       |       |  |  |
| -5           |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 2         |  |       |  |  |  |  |  |       |       |  |  |
| -7           |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 3         |  |       |  |  |  |  |  |       |       |  |  |
| Element (X)  | Σ X²                                |     | Σ X |     | Σ   |      | Σ     |       | No. Obs. |       | Mean No. of Hours with Temperature |       |        |       |        |       |        |           |          |          |           |  |       |  |  |  |  |  |       |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |          |       | ≤ 0 F                              |       | ≤ 32 F |       | ≥ 67 F |       | ≥ 73 F |           | ≥ 80 F   |          | ≥ 93 F    |  | Total |  |  |  |  |  |       |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          |           |  |       |  |  |  |  |  |       |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          |           |  |       |  |  |  |  |  |       |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          |           |  |       |  |  |  |  |  |       |       |  |  |

## PSYCHROMETRIC SUMMARY

**YEARS**

DEC  
MONTH

PAGE 2

0000-0200  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

72° 25'  
STATION

YOUNGSTOWN MAP OH

73-81

DEC

PAGE 1

0300-0500  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      |           |          |          |           |        |  |       |  |  |  | TOTAL | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|----------|-------|------------------------------------|-------|--------|-------|--------|------|-----------|----------|----------|-----------|--------|--|-------|--|--|--|-------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18    | 19-20 | 21-22                              | 23-24 | 25-26  | 27-28 | 29-30  | = 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |        |  |       |  |  |  |       |       |  |  |
| 50 / 57      |                                     |     |     | .6  | .1  |      |       |       |       |          |       |                                    |       |        |       |        |      | 6         | 6        |          |           |        |  |       |  |  |  |       |       |  |  |
| 50 / 55      |                                     | .2  | .1  | .1  |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 4         | 4        |          |           |        |  |       |  |  |  |       |       |  |  |
| 44 / 53      |                                     | .4  | .2  | .2  |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 7         | 7        | 9        | 1         |        |  |       |  |  |  |       |       |  |  |
| 42 / 51      |                                     | .4  | .5  |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 7         | 7        | 3        | 5         |        |  |       |  |  |  |       |       |  |  |
| 5 / 49       |                                     | .6  | .7  | .4  |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 14        | 14       | 7        | 6         |        |  |       |  |  |  |       |       |  |  |
| 47 / 47      |                                     | .1  | .4  |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 4         | 4        | 14       | 6         |        |  |       |  |  |  |       |       |  |  |
| 46 / 45      |                                     | .1  | .1  | .2  | .7  |      |       |       |       |          |       |                                    |       |        |       |        |      | 10        | 10       | 6        | 8         |        |  |       |  |  |  |       |       |  |  |
| 44 / 43      |                                     | .9  | .5  |     | .1  | .2   |       |       |       |          |       |                                    |       |        |       |        |      | 14        | 14       | 8        | 9         |        |  |       |  |  |  |       |       |  |  |
| 42 / 41      |                                     | .5  | .2  |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 6         | 6        | 10       | 10        |        |  |       |  |  |  |       |       |  |  |
| 4 / 39       | .4                                  | .9  | .6  |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 15        | 15       | 10       | 10        |        |  |       |  |  |  |       |       |  |  |
| 30 / 37      |                                     | 1.6 | .7  | 1.0 |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 27        | 27       | 15       | 4         |        |  |       |  |  |  |       |       |  |  |
| 30 / 35      | .7                                  | 3.7 | 1.9 | 1.0 | .2  |      |       |       |       |          |       |                                    |       |        |       |        |      | 61        | 61       | 28       | 16        |        |  |       |  |  |  |       |       |  |  |
| 30 / 33      | .1                                  | 5.7 | 1.9 | .5  |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 66        | 66       | 56       | 22        |        |  |       |  |  |  |       |       |  |  |
| 52 / 31      | 1.1                                 | 7.4 | 3.6 | .9  |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 105       | 106      | 71       | 61        |        |  |       |  |  |  |       |       |  |  |
| 7 / 29       | .4                                  | 3.7 | 5.7 |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 79        | 79       | 85       | 36        |        |  |       |  |  |  |       |       |  |  |
| 20 / 27      | .5                                  | 4.5 | 2.0 |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 56        | 56       | 59       | 43        |        |  |       |  |  |  |       |       |  |  |
| 20 / 25      | 1.1                                 | 5.9 | .9  |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 64        | 64       | 113      | 61        |        |  |       |  |  |  |       |       |  |  |
| 24 / 23      | .1                                  | 4.8 | .9  |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 47        | 47       | 69       | 35        |        |  |       |  |  |  |       |       |  |  |
| 22 / 21      | .2                                  | 4.2 |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 36        | 36       | 36       | 71        |        |  |       |  |  |  |       |       |  |  |
| 21 / 19      | .9                                  | 4.6 |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 44        | 44       | 46       | 93        |        |  |       |  |  |  |       |       |  |  |
| 18 / 17      | .7                                  | 3.0 |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 30        | 30       | 47       | 57        |        |  |       |  |  |  |       |       |  |  |
| 16 / 15      | .6                                  | 3.7 |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 35        | 35       | 27       | 53        |        |  |       |  |  |  |       |       |  |  |
| 14 / 13      | .1                                  | 1.6 |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 14        | 14       | 25       | 54        |        |  |       |  |  |  |       |       |  |  |
| 12 / 11      | .6                                  | .4  |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 8         | 8        | 13       | 43        |        |  |       |  |  |  |       |       |  |  |
| 11 / 9       | .6                                  | 1.0 |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 13        | 13       | 8        | 15        |        |  |       |  |  |  |       |       |  |  |
| 8 / 7        | .6                                  | .6  |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 10        | 10       | 16       | 26        |        |  |       |  |  |  |       |       |  |  |
| 6 / 5        | .2                                  | .4  |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 5         | 5        | 6        | 16        |        |  |       |  |  |  |       |       |  |  |
| 4 / 3        | 1.2                                 |     |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 10        | 10       | 10       | 11        |        |  |       |  |  |  |       |       |  |  |
| / 1          | .4                                  |     |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 3         | 3        | 3        | 9         |        |  |       |  |  |  |       |       |  |  |
| / -1         | .4                                  |     |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 3         | 3        | 3        | 15        |        |  |       |  |  |  |       |       |  |  |
| -2 / -3      | .1                                  |     |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 1         | 1        | 1        | 4         |        |  |       |  |  |  |       |       |  |  |
| -4 / -5      | .4                                  |     |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 3         | 3        | 3        | 3         |        |  |       |  |  |  |       |       |  |  |
| -6 / -7      | .1                                  |     |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      | 1         | 1        | 1        |           |        |  |       |  |  |  |       |       |  |  |
| -8 / -9      |                                     |     |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      |           |          |          | 4         |        |  |       |  |  |  |       |       |  |  |
| Element (X)  | Σ x <sup>2</sup>                    |     |     | Σ x |     | Σ    |       | Σ     |       | No. Obs. |       | Mean No. of Hours with Temperature |       |        |       |        |      |           |          |          |           |        |  |       |  |  |  |       |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |       |          |       | ≤ 6 F                              |       | ≤ 32 F |       | ≤ 67 F |      | ≤ 73 F    |          | ≥ 80 F   |           | ≥ 93 F |  | Total |  |  |  |       |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      |           |          |          |           |        |  |       |  |  |  |       |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      |           |          |          |           |        |  |       |  |  |  |       |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |       |          |       |                                    |       |        |       |        |      |           |          |          |           |        |  |       |  |  |  |       |       |  |  |

## PSYCHROMETRIC SUMMARY

729250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81

YFARS

DEC  
MONTH

PAGE 2

0300-0500  
HOURS (L. S. T.)

[illegible]

FORM 0-26-5 (OL A)  
REVISED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

**USAFETAC**



## PSYCHROMETRIC SUMMARY

725250  
STATION

YOUNGSTOWN MAP OH

73-81

**DEC**  
**MONTH**

PAGE 1

0600-0800  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | TOTAL<br>D.B./W.B. | TOTAL |       |    |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|----------------|-------|-------|----------|-------|-------|------------------------------------|----|----------|----------|-----------|--|--------|--|--|--------|--|--|--------|--|--|--------|--------------------|-------|-------|----|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18          | 19-20 | 21-22 | 23-24    | 25-26 | 27-28 | 29-30                              | 31 | Dry Bulb | Wet Bulb | Dew Point |  |        |  |  |        |  |  |        |  |  |        |                    |       |       |    |  |
| 59 / 59      |                                     |     |     | .1  |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 1      | 1                  |       |       |    |  |
| 58 / 55      |                                     |     | .6  | .1  | .2  |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 8                  | 8     |       |    |  |
| 57 / 53      |                                     |     | .5  |     | .4  |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 7      | 7                  | 9     | 2     |    |  |
| 56 / 51      |                                     |     |     | .6  |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 5      | 5                  | 2     | 8     |    |  |
| 55 / 49      |                                     |     | .2  | .5  | .1  | .1   | .2    |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 10     | 10                 | 2     | 1     |    |  |
| 54 / 47      |                                     |     | .6  | .4  | .2  |      | .1    |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 11     | 11                 | 12    |       |    |  |
| 53 / 45      |                                     |     | .5  | .4  | .4  | .4   |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 13     | 13                 | 8     | 10    |    |  |
| 52 / 43      |                                     |     | .9  | .2  |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 9      | 9                  | 10    | 7     |    |  |
| 51 / 41      |                                     |     | 1.1 | .2  | .1  |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 12     | 12                 | 14    | 12    |    |  |
| 50 / 39      |                                     |     | .2  | .9  | .2  |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 11                 | 11    | 16    | 12 |  |
| 49 / 37      |                                     |     | 1.5 | 1.1 | .5  | .1   |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 26     | 27                 | 9     | 9     |    |  |
| 48 / 35      | .6                                  |     | 3.2 | 1.3 | .4  | .2   |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 47     | 47                 | 29    | 8     |    |  |
| 47 / 33      | .7                                  |     | 5.5 | 1.7 | .2  |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 67     | 67                 | 57    | 27    |    |  |
| 46 / 31      | .7                                  |     | 8.9 | 4.5 | 1.2 |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 126    | 126                | 60    | 67    |    |  |
| 45 / 29      | .6                                  |     | 3.9 | 3.2 |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 63     | 63                 | 102   | 36    |    |  |
| 44 / 27      | .2                                  |     | 5.0 | 1.3 | .2  |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 56     | 56                 | 66    | 45    |    |  |
| 43 / 25      | .7                                  |     | 6.3 | 1.2 | .2  |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  | 70     | 70                 | 80    | 60    |    |  |
| 42 / 23      | .2                                  |     | 4.4 | .7  |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 44                 | 44    | 81    | 40 |  |
| 41 / 21      | 1.2                                 |     | 3.6 |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 40                 | 40    | 48    | 59 |  |
| 40 / 19      | 1.6                                 |     | 3.3 |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 40                 | 40    | 42    | 97 |  |
| 39 / 17      | .5                                  |     | 3.0 |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 29                 | 29    | 30    | 55 |  |
| 38 / 15      | 1.2                                 |     | 3.8 | .1  |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 42                 | 42    | 37    | 62 |  |
| 37 / 13      | .5                                  |     | 2.4 |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 24                 | 24    | 30    | 40 |  |
| 36 / 11      | .2                                  |     | 1.0 |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 10                 | 10    | 21    | 42 |  |
| 35 / 9       | .5                                  |     | .7  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 10                 | 10    | 12    | 28 |  |
| 34 / 7       | .5                                  |     | 1.6 |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 17                 | 17    | 16    | 29 |  |
| 33 / 5       |                                     |     | .4  |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 3                  | 3     | 8     | 11 |  |
| 32 / 3       | .6                                  |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 5                  | 5     | 5     | 12 |  |
| 31 / 1       | 1.1                                 |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 9                  | 9     | 9     | 20 |  |
| 30 / -1      | .4                                  |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 3                  | 3     | 3     | 9  |  |
| 29 / -3      | .2                                  |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 2                  | 2     | 2     | 8  |  |
| 28 / -5      | .2                                  |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 2                  | 2     | 2     | 3  |  |
| 27 / -7      | .1                                  |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        | 1                  | 1     | 1     | 1  |  |
| 26 / -11     |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        |                    |       |       | 2  |  |
| Element (X)  | Σ X'                                |     |     | Σ X |     |      | X̄    |       |       | σ <sub>X</sub> |       |       | No. Obs. |       |       | Mean No. of Hours with Temperature |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        |                    |       |       |    |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       | ≤ 6 F                              |    |          | ≤ 32 F   |           |  | ≥ 67 F |  |  | ≥ 73 F |  |  | ≥ 80 F |  |  | ≥ 93 F |                    |       | Total |    |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        |                    |       |       |    |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        |                    |       |       |    |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |       |                |       |       |          |       |       |                                    |    |          |          |           |  |        |  |  |        |  |  |        |  |  |        |                    |       |       |    |  |

## PSYCHROMETRIC SUMMARY

|               |                          |
|---------------|--------------------------|
| <u>725250</u> | <u>YOUNGSTOWN MAP OH</u> |
| STATION       | STATION NAME             |

73-81

YEAR 2

DEC

## MONTH

**PAGE 2**

0600-0800  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

**DEC**  
**MONTH**

PAGE 2 0900-1100  
HOURS (L. S. T.)

[illegible]

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
YEARS

YEARS

DEC  
MONTH

PAGE 1 1200-1400  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       | TOTAL  |           | TOTAL    |          |           |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|----------|-------|------------------------------------|-------|--------|-------|--------|-------|--------|-----------|----------|----------|-----------|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16    | 17-18 | 19-20                              | 21-22 | 23-24  | 25-26 | 27-28  | 29-30 | = 31   | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |
| 62/ 61       |                                     |     |     |     | .1  |      |       |       |          |       |                                    |       |        |       |        |       |        | 1         | 1        |          |           |
| 61/ 59       |                                     |     |     |     | .6  |      | .4    |       |          |       |                                    |       |        |       |        |       |        | 8         | 8        |          |           |
| 58/ 57       |                                     |     | .2  | .1  | .1  |      | .4    |       |          |       |                                    |       |        |       |        |       |        | 7         | 7        |          |           |
| 56/ 55       |                                     |     | .1  | .1  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 2         | 2        |          |           |
| 54/ 53       |                                     | .1  | .5  | .4  |     |      | .1    |       |          |       |                                    |       |        |       |        |       |        | 9         | 9        | 4        |           |
| 52/ 51       |                                     | .2  | .2  | .1  |     | .2   |       |       |          |       |                                    |       |        |       |        |       |        | 7         | 7        | 9        | 6         |
| 51/ 49       |                                     | .4  | .6  | .5  |     | .4   |       |       |          |       |                                    |       |        |       |        |       |        | 15        | 15       | 7        | 1         |
| 48/ 47       |                                     | .8  | .1  | .2  | .4  | .1   |       |       |          |       |                                    |       |        |       |        |       |        | 14        | 14       | 12       | 4         |
| 46/ 45       | .2                                  | .5  | .7  | .5  | .1  | .1   |       |       |          |       |                                    |       |        |       |        |       |        | 18        | 18       | 18       | 12        |
| 44/ 43       | .2                                  | .7  | .4  | .4  | .7  | .1   |       |       |          |       |                                    |       |        |       |        |       |        | 21        | 21       | 11       | 19        |
| 42/ 41       |                                     | .6  | .7  | 1.0 | .7  |      |       |       |          |       |                                    |       |        |       |        |       |        | 25        | 25       | 20       | 7         |
| 41/ 39       | .2                                  | 2.1 | 1.2 | 1.2 | .7  | .1   |       |       |          |       |                                    |       |        |       |        |       |        | 46        | 46       | 21       | 9         |
| 36/ 37       | .4                                  | 2.9 | .8  | 2.3 | .5  |      |       |       |          |       |                                    |       |        |       |        |       |        | 57        | 57       | 43       | 21        |
| 36/ 35       | .2                                  | 3.3 | 3.3 | 1.2 | .5  |      |       |       |          |       |                                    |       |        |       |        |       |        | 70        | 70       | 43       | 33        |
| 34/ 33       | .2                                  | 5.8 | 4.2 | 1.7 |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 99        | 99       | 70       | 28        |
| 32/ 31       | .1                                  | 4.6 | 3.6 | .8  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 76        | 76       | 97       | 60        |
| 31/ 29       | .5                                  | 5.0 | 4.6 | .2  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 85        | 85       | 97       | 46        |
| 28/ 27       | .5                                  | 4.2 | 2.4 | .1  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 60        | 60       | 78       | 61        |
| 26/ 25       | .2                                  | 4.1 | 2.8 | .1  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 60        | 60       | 83       | 61        |
| 24/ 23       | .1                                  | 1.7 | 1.3 |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 26        | 26       | 50       | 56        |
| 22/ 21       |                                     | 1.7 | 1.1 |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 23        | 23       | 41       | 63        |
| 21/ 19       | .1                                  | 1.9 | .5  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 21        | 21       | 25       | 73        |
| 18/ 17       |                                     | 2.1 | .5  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 21        | 21       | 22       | 45        |
| 16/ 15       |                                     | 1.8 | .1  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 16        | 16       | 24       | 38        |
| 14/ 13       |                                     | 1.6 | .1  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 14        | 14       | 14       | 42        |
| 12/ 11       |                                     | 1.3 | .1  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 12        | 12       | 12       | 30        |
| 11/ 9        |                                     | .8  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 7         | 7        | 16       | 19        |
| 8/ 7         |                                     | .7  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 6         | 6        | 7        | 15        |
| 6/ 5         |                                     | .1  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 1         | 1        | 3        | 19        |
| 4/ 3         |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 15        |
| 2/ 1         |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 16        |
| 0/ -1        |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 3         |
| -2/ -3       |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 4         |
| -4/ -5       |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          | 1         |
| Element (X)  | Σx <sup>1</sup>                     |     | Σx  |     | Σ   |      | °s    |       | No. Obs. |       | Mean No. of Hours with Temperature |       |        |       |        |       |        |           |          |          | Total     |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |          |       | ≤ 6 F                              |       | ≤ 32 F |       | ≤ 67 F |       | ≤ 73 F |           | ≤ 80 F   |          | ≤ 93 F    |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          |           |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          |           |
| Dew Point    |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |           |          |          |           |

FORM 0-26-5 (OL A) REVERSE PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

725250  
STATION

YOUNGSTOWN MAP OH

**73-81**

DEC  
MONTH

PAGE 2 1200-1400  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

DEC  
MONTH

PAGE 1 1500-1700  
HOURS (L. S. Y.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      |          |                                    |           |        |        |        |        |       |  | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|----------------|----------|-------|-------|-------|-------|-------|-------|-------|------|----------|------------------------------------|-----------|--------|--------|--------|--------|-------|--|--------------------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14          | 15-16    | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | Dry Bulb | Wet Bulb                           | Dew Point |        |        |        |        |       |  |                    |       |  |  |
| 62 / 61      |                                     |     |     |     | .2  |      |       | .1             |          |       |       |       |       |       |       |       |      | 3        | 3                                  |           |        |        |        |        |       |  |                    |       |  |  |
| 61 / 59      |                                     |     |     |     | .2  |      | .1    | .4             |          |       |       |       |       |       |       |       |      | 6        | 6                                  |           |        |        |        |        |       |  |                    |       |  |  |
| 58 / 57      |                                     |     | .2  | .1  | .1  | .4   |       |                |          |       |       |       |       |       |       |       |      | 7        | 7                                  |           |        |        |        |        |       |  |                    |       |  |  |
| 56 / 55      |                                     | .2  | .2  | .4  |     |      | .2    |                |          |       |       |       |       |       |       |       |      | 9        | 9                                  |           |        |        |        |        |       |  |                    |       |  |  |
| 47 / 53      |                                     | .4  | .1  |     |     |      | .1    |                |          |       |       |       |       |       |       |       |      | 5        | 5                                  | 10        |        |        |        |        |       |  |                    |       |  |  |
| 52 / 51      |                                     |     |     | .2  | .1  | .1   |       |                |          |       |       |       |       |       |       |       |      | 4        | 4                                  | 7         |        |        |        |        |       |  |                    |       |  |  |
| 5 / 49       | .1                                  | .4  | .4  | .7  |     | .2   |       |                |          |       |       |       |       |       |       |       |      | 15       | 15                                 | 7         |        |        |        |        |       |  |                    |       |  |  |
| 48 / 47      |                                     | .6  | .5  | .6  | .2  | .1   |       |                |          |       |       |       |       |       |       |       |      | 17       | 17                                 | 9         |        |        |        |        |       |  |                    |       |  |  |
| 46 / 45      |                                     | .7  | .5  | .7  | .5  |      |       |                |          |       |       |       |       |       |       |       |      | 20       | 20                                 | 11        |        |        |        |        |       |  |                    |       |  |  |
| 44 / 43      | .2                                  | 1.0 | .5  | .9  | .7  | .1   |       |                |          |       |       |       |       |       |       |       |      | 28       | 28                                 | 22        |        |        |        |        |       |  |                    |       |  |  |
| 42 / 41      |                                     | .1  | .9  | 1.7 | .5  | .1   |       |                |          |       |       |       |       |       |       |       |      | 27       | 27                                 | 21        |        |        |        |        |       |  |                    |       |  |  |
| 4 / 39       |                                     | 1.7 | 1.6 | 1.2 | .6  | .1   |       |                |          |       |       |       |       |       |       |       |      | 43       | 43                                 | 19        |        |        |        |        |       |  |                    |       |  |  |
| 38 / 37      |                                     | 2.4 | 1.1 | 2.4 | 1.0 |      |       |                |          |       |       |       |       |       |       |       |      | 57       | 57                                 | 35        |        |        |        |        |       |  |                    |       |  |  |
| 36 / 35      | .2                                  | 3.8 | 2.3 | 1.8 |     |      |       |                |          |       |       |       |       |       |       |       |      | 67       | 67                                 | 57        |        |        |        |        |       |  |                    |       |  |  |
| 34 / 33      | .1                                  | 4.4 | 3.7 | 2.1 | .1  |      |       |                |          |       |       |       |       |       |       |       |      | 85       | 85                                 | 69        |        |        |        |        |       |  |                    |       |  |  |
| 32 / 31      |                                     | 6.0 | 4.4 | 2.1 |     |      |       |                |          |       |       |       |       |       |       |       |      | 102      | 102                                | 82        |        |        |        |        |       |  |                    |       |  |  |
| 31 / 29      | .7                                  | 3.1 | 5.1 |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 73       | 74                                 | 102       |        |        |        |        |       |  |                    |       |  |  |
| 28 / 27      | .4                                  | 2.7 | 2.6 |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 46       | 46                                 | 76        |        |        |        |        |       |  |                    |       |  |  |
| 26 / 25      | .1                                  | 3.2 | 2.7 |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 49       | 49                                 | 76        |        |        |        |        |       |  |                    |       |  |  |
| 24 / 23      |                                     | 2.0 | 2.2 |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 34       | 35                                 | 54        |        |        |        |        |       |  |                    |       |  |  |
| 22 / 21      |                                     | 1.5 | 1.3 |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 23       | 23                                 | 33        |        |        |        |        |       |  |                    |       |  |  |
| 21 / 19      | .2                                  | 1.7 | 1.3 |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 27       | 27                                 | 26        |        |        |        |        |       |  |                    |       |  |  |
| 18 / 17      |                                     | 2.4 | .4  |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 23       | 23                                 | 30        |        |        |        |        |       |  |                    |       |  |  |
| 16 / 15      |                                     | 1.2 | .1  |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 11       | 11                                 | 25        |        |        |        |        |       |  |                    |       |  |  |
| 14 / 13      |                                     | .9  | .1  |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 8        | 8                                  | 10        |        |        |        |        |       |  |                    |       |  |  |
| 11 / 11      | .1                                  | 1.3 |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 12       | 12                                 | 10        |        |        |        |        |       |  |                    |       |  |  |
| 11 / 9       |                                     | 1.6 |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 13       | 13                                 | 14        |        |        |        |        |       |  |                    |       |  |  |
| 8 / 7        |                                     | .2  |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 2        | 2                                  | 10        |        |        |        |        |       |  |                    |       |  |  |
| 6 / 5        |                                     |     |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      |          |                                    | 1         |        |        |        |        |       |  |                    |       |  |  |
| 4 / 3        | .1                                  | .1  |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 2        | 2                                  | 1         |        |        |        |        |       |  |                    |       |  |  |
| 2 / 1        |                                     | .1  |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      | 1        | 1                                  | 2         |        |        |        |        |       |  |                    |       |  |  |
| 1 / -1       |                                     |     |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      |          |                                    |           |        |        |        |        |       |  |                    |       |  |  |
| -2 / -3      |                                     |     |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      |          |                                    |           |        |        |        |        |       |  |                    |       |  |  |
| -4 / -5      |                                     |     |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      |          |                                    |           |        |        |        |        |       |  |                    |       |  |  |
| Element (X)  | Σ x'                                |     |     | Σ x |     |      | X     | c <sub>x</sub> | No. Obs. |       |       |       |       |       |       |       |      |          | Mean No. of Hours with Temperature |           |        |        |        |        |       |  |                    |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      |          | ≤ 6 F                              | ≥ 22 F    | ≥ 67 F | ≥ 73 F | ≥ 80 F | ≥ 93 F | Total |  |                    |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      |          |                                    |           |        |        |        |        |       |  |                    |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      |          |                                    |           |        |        |        |        |       |  |                    |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |                |          |       |       |       |       |       |       |       |      |          |                                    |           |        |        |        |        |       |  |                    |       |  |  |

## PSYCHROMETRIC SUMMARY

YEARS

DEC  
MONTH

PAGE 2 1500-1700  
HOURS (L. S. T.)

[illegible]

**USAFETAC**  
FORM  
JA 24  
**0-26-5 (OLA)**  
REVERSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE



## PSYCHROMETRIC SUMMARY

725250  
STATION

YOUNGSTOWN MAP OH

73-81

DEC

PAGE 1 1800-2000  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

73-81

**YEARS**

DEC  
MONTH

PAGE 2 1800-2000  
HOURS (L. S. T.)

[illegible]



## PSYCHROMETRIC SUMMARY

YEARS

**DEC**  
**MONTH**

PAGE 2 2100-2300  
HOURS (L. S. T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**YEARS**

DEC  
MONTH

PAGE 1

ALL

ALL  
HOURS (L. S. T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |          |          |           |        |  |       |  |  |  | TOTAL<br>D.B./W.B. | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|----------|-------|------------------------------------|-------|--------|-------|--------|-------|--------|----------|----------|-----------|--------|--|-------|--|--|--|--------------------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16    | 17-18 | 19-20                              | 21-22 | 23-24  | 25-26 | 27-28  | 29-30 | ≥ 31   | Dry Bulb | Wet Bulb | Dew Point |        |  |       |  |  |  |                    |       |  |  |
| 27 / 61      |                                     |     |     |     | .0  |      |       | .0    |          |       |                                    |       |        |       |        |       |        | 4        | 4        |           |        |  |       |  |  |  |                    |       |  |  |
| 27 / 59      |                                     |     |     | .1  | .1  | .0   | .1    |       |          |       |                                    |       |        |       |        |       |        | 18       | 18       |           |        |  |       |  |  |  |                    |       |  |  |
| 57 / 57      |                                     | .0  | .1  | .3  | .1  | .1   | .1    |       |          |       |                                    |       |        |       |        |       |        | 46       | 46       |           |        |  |       |  |  |  |                    |       |  |  |
| 56 / 55      |                                     | .2  | .1  | .2  | .0  | .1   | .1    |       |          |       |                                    |       |        |       |        |       |        | 47       | 47       | 4         | 2      |  |       |  |  |  |                    |       |  |  |
| 47 / 53      |                                     | .4  | .2  | .2  |     | .0   | .0    | .0    |          |       |                                    |       |        |       |        |       |        | 61       | 61       | 48        | 9      |  |       |  |  |  |                    |       |  |  |
| 42 / 51      | .0                                  | .3  | .3  | .1  | .0  | .0   |       |       |          |       |                                    |       |        |       |        |       |        | 54       | 54       | 54        | 42     |  |       |  |  |  |                    |       |  |  |
| 57 / 49      | .0                                  | .4  | .4  | .4  | .0  | .2   |       |       |          |       |                                    |       |        |       |        |       |        | 95       | 95       | 58        | 29     |  |       |  |  |  |                    |       |  |  |
| 46 / 47      | .0                                  | .7  | .3  | .2  | .1  | .1   |       |       |          |       |                                    |       |        |       |        |       |        | 93       | 93       | 86        | 57     |  |       |  |  |  |                    |       |  |  |
| 46 / 45      | .0                                  | .6  | .5  | .3  | .3  | .0   |       |       |          |       |                                    |       |        |       |        |       |        | 113      | 113      | 96        | 67     |  |       |  |  |  |                    |       |  |  |
| 47 / 43      | .1                                  | .7  | .4  | .3  | .2  | .2   |       |       |          |       |                                    |       |        |       |        |       |        | 119      | 119      | 93        | 95     |  |       |  |  |  |                    |       |  |  |
| 42 / 41      |                                     | .7  | .5  | .5  | .2  | .0   |       |       |          |       |                                    |       |        |       |        |       |        | 122      | 122      | 112       | 75     |  |       |  |  |  |                    |       |  |  |
| 47 / 39      | .2                                  | 1.3 | 1.1 | .7  | .3  | .0   |       |       |          |       |                                    |       |        |       |        |       |        | 240      | 240      | 137       | 78     |  |       |  |  |  |                    |       |  |  |
| 36 / 37      | .3                                  | 1.9 | .9  | 1.1 | .3  |      |       |       |          |       |                                    |       |        |       |        |       |        | 287      | 288      | 198       | 103    |  |       |  |  |  |                    |       |  |  |
| 36 / 35      | .5                                  | 3.4 | 1.9 | 1.0 | .1  |      |       |       |          |       |                                    |       |        |       |        |       |        | 451      | 451      | 286       | 189    |  |       |  |  |  |                    |       |  |  |
| 36 / 33      | .4                                  | 5.6 | 2.7 | .9  | .0  |      |       |       |          |       |                                    |       |        |       |        |       |        | 630      | 630      | 463       | 196    |  |       |  |  |  |                    |       |  |  |
| 42 / 31      | .6                                  | 6.8 | 4.7 | 1.1 |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 860      | 861      | 623       | 463    |  |       |  |  |  |                    |       |  |  |
| 37 / 29      | .7                                  | 4.3 | 4.5 | .1  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 635      | 637      | 739       | 388    |  |       |  |  |  |                    |       |  |  |
| 26 / 27      | .5                                  | 4.5 | 2.3 | .1  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 481      | 481      | 635       | 389    |  |       |  |  |  |                    |       |  |  |
| 26 / 25      | .5                                  | 4.9 | 1.7 | .0  |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 465      | 465      | 725       | 493    |  |       |  |  |  |                    |       |  |  |
| 24 / 23      | .2                                  | 3.2 | 1.1 |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 287      | 288      | 490       | 362    |  |       |  |  |  |                    |       |  |  |
| 22 / 21      | .4                                  | 3.3 | .7  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 290      | 290      | 317       | 558    |  |       |  |  |  |                    |       |  |  |
| 21 / 19      | .5                                  | 3.4 | .4  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 283      | 283      | 290       | 656    |  |       |  |  |  |                    |       |  |  |
| 16 / 17      | .4                                  | 2.8 | .1  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 219      | 219      | 299       | 439    |  |       |  |  |  |                    |       |  |  |
| 16 / 15      | .3                                  | 2.2 | .1  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 172      | 172      | 210       | 386    |  |       |  |  |  |                    |       |  |  |
| 14 / 13      | .2                                  | 1.5 | .0  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 114      | 114      | 138       | 371    |  |       |  |  |  |                    |       |  |  |
| 17 / 11      | .3                                  | 1.1 | .0  |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 96       | 96       | 117       | 275    |  |       |  |  |  |                    |       |  |  |
| 17 / 9       | .3                                  | 1.0 |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 88       | 88       | 107       | 185    |  |       |  |  |  |                    |       |  |  |
| 8 / 7        | .2                                  | .8  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 67       | 67       | 85        | 181    |  |       |  |  |  |                    |       |  |  |
| 6 / 5        | .1                                  | .3  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 26       | 26       | 51        | 108    |  |       |  |  |  |                    |       |  |  |
| 4 / 3        | .6                                  | .1  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 46       | 46       | 45        | 95     |  |       |  |  |  |                    |       |  |  |
| 2 / 1        | .4                                  | .1  |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 30       | 30       | 32        | 129    |  |       |  |  |  |                    |       |  |  |
| 1 / -1       | .2                                  |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 13       | 13       | 14        | 72     |  |       |  |  |  |                    |       |  |  |
| -2 / -3      | .1                                  |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 9        | 10       | 9         | 31     |  |       |  |  |  |                    |       |  |  |
| -4 / -5      | .1                                  |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        | 6        | 6        | 6         | 26     |  |       |  |  |  |                    |       |  |  |
| Element (X)  | Σ X <sup>2</sup>                    |     | Σ X |     | Σ X |      | Σ X   |       | No. Obs. |       | Mean No. of Hours with Temperature |       |        |       |        |       |        |          |          |           |        |  |       |  |  |  |                    |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |          |       | ≤ 0 F                              |       | ≤ 32 F |       | ≥ 67 F |       | ≥ 73 F |          | ≥ 80 F   |           | ≥ 93 F |  | Total |  |  |  |                    |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |          |          |           |        |  |       |  |  |  |                    |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |          |          |           |        |  |       |  |  |  |                    |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |          |       |                                    |       |        |       |        |       |        |          |          |           |        |  |       |  |  |  |                    |       |  |  |

## PSYCHROMETRIC SUMMARY

**YEARS**

DEC  
MONTH

ALL  
HOURS (L, S, T.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           | TOTAL    | TOTAL    |           |  |
|--------------|-------------------------------------|-------|-------|-------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|-----------|----------|----------|-----------|--|
|              | 0                                   | 1 - 2 | 3 - 4 | 5 - 6 | 7 - 8 | 9 - 10 | 11 - 12 | 13 - 14 | 15 - 16 | 17 - 18 | 19 - 20 | 21 - 22 | 23 - 24 | 25 - 26 | 27 - 28 | 29 - 30 | > 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |  |
| - / -7       | .0                                  |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      | 2         | 2        | 2        | 5         |  |
| - / -9       |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          | 9         |  |
| - / -11      |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          | 5         |  |
| -1 / -13     |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          | 1         |  |
| TOTAL        | 9.1                                 | 56.8  | 24.8  | 7.3   | 1.9   | .8     | .3      | .0      |         |         |         |         |         |         |         |         |      | 6569      | 6575     | 6569     | 6569      |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |
|              |                                     |       |       |       |       |        |         |         |         |         |         |         |         |         |         |         |      |           |          |          |           |  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

# PSYCHROMETRIC SUMMARY

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81

YEARS

ALL  
MONTH

PAGE 1

ALL

HOURS (L. S. Y.)

| Temp.<br>(F) | WET BULB TEMPERATURE DEPRESSION (F) |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           | TOTAL | TOTAL |  |  |
|--------------|-------------------------------------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-----------|----------|----------|-----------|-------|-------|--|--|
|              | 0                                   | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 | 11-12 | 13-14 | 15-16 | 17-18 | 19-20 | 21-22 | 23-24 | 25-26 | 27-28 | 29-30 | ≥ 31 | D.B./W.B. | Dry Bulb | Wet Bulb | Dew Point |       |       |  |  |
| 94 / 93      |                                     |     |     |     |     |      |       |       | .0    | .0    | .0    | .0    |       |       |       |       |      | 4         | 4        |          |           |       |       |  |  |
| 92 / 91      |                                     |     |     |     |     |      |       | .0    | .0    | .0    | .0    | .0    |       |       |       |       |      | 33        | 34       |          |           |       |       |  |  |
| 90 / 89      |                                     |     |     |     |     | .0   | .0    | .0    | .0    | .0    | .0    |       |       |       |       |       |      | 85        | 85       |          |           |       |       |  |  |
| 88 / 87      |                                     |     |     |     | .0  | .0   | .1    | .1    | .0    | .0    | .0    | .0    | .0    |       |       |       |      | 184       | 185      |          |           |       |       |  |  |
| 86 / 85      |                                     |     |     |     | .0  | .1   | .1    | .1    | .1    | .0    | .0    | .0    |       |       |       |       |      | 363       | 363      |          |           |       |       |  |  |
| 84 / 83      |                                     |     |     | .0  | .1  | .1   | .1    | .2    | .1    | .1    | .0    | .0    | .0    | .0    |       |       |      | 611       | 613      |          |           |       |       |  |  |
| 82 / 81      |                                     | .0  | .0  | .0  | .2  | .2   | .3    | .3    | .2    | .1    | .0    | .0    | .0    |       |       |       |      | 984       | 985      |          |           |       |       |  |  |
| 80 / 79      |                                     | .0  | .0  | .1  | .3  | .4   | .3    | .3    | .2    | .1    | .0    | .0    | .0    |       |       |       |      | 1348      | 1350     | 14       | 2         |       |       |  |  |
| 78 / 77      |                                     | .0  | .1  | .2  | .4  | .3   | .4    | .2    | .1    | .1    | .0    | .0    |       |       |       |       |      | 1333      | 1333     | 98       | 5         |       |       |  |  |
| 76 / 75      | .0                                  | .0  | .2  | .4  | .5  | .4   | .3    | .3    | .2    | .1    | .0    | .0    |       |       |       |       |      | 1820      | 1822     | 298      | 39        |       |       |  |  |
| 74 / 73      |                                     | .1  | .4  | .6  | .4  | .4   | .3    | .2    | .1    | .0    | .0    | .0    |       |       |       |       |      | 2035      | 2036     | 773      | 143       |       |       |  |  |
| 72 / 71      | .0                                  | .3  | .6  | .5  | .4  | .3   | .3    | .2    | .1    | .1    | .0    | .0    |       |       |       |       |      | 2198      | 2199     | 1170     | 409       |       |       |  |  |
| 70 / 69      | .0                                  | .6  | 1.0 | .4  | .4  | .3   | .2    | .2    | .1    | .0    | .0    | .0    |       |       |       |       |      | 2588      | 2591     | 2016     | 1017      |       |       |  |  |
| 68 / 67      | .0                                  | .8  | 1.0 | .5  | .4  | .3   | .3    | .1    | .1    | .0    | .0    | .0    |       |       |       |       |      | 2672      | 2674     | 2879     | 1746      |       |       |  |  |
| 66 / 65      | .1                                  | 1.0 | .9  | .6  | .4  | .3   | .2    | .2    | .1    | .0    | .0    |       |       |       |       |       |      | 2864      | 2868     | 3066     | 2201      |       |       |  |  |
| 64 / 63      | .0                                  | 1.2 | .7  | .6  | .4  | .3   | .2    | .1    | .1    | .0    |       |       |       |       |       |       |      | 2768      | 2771     | 3263     | 2521      |       |       |  |  |
| 62 / 61      | .1                                  | 1.0 | .7  | .6  | .4  | .3   | .2    | .2    | .1    | .0    |       |       |       |       |       |       |      | 2576      | 2578     | 3040     | 2729      |       |       |  |  |
| 60 / 59      | .1                                  | 1.2 | 1.0 | .5  | .3  | .3   | .2    | .1    | .0    | .0    |       |       |       |       |       |       |      | 2833      | 2834     | 2979     | 2851      |       |       |  |  |
| 58 / 57      | .1                                  | 1.1 | .8  | .5  | .3  | .3   | .2    | .1    | .0    | .0    |       |       |       |       |       |       |      | 2599      | 2603     | 3079     | 2799      |       |       |  |  |
| 56 / 55      | .1                                  | .9  | .8  | .4  | .4  | .3   | .2    | .0    | .0    |       |       |       |       |       |       |       |      | 2373      | 2374     | 2999     | 2969      |       |       |  |  |
| 54 / 53      | .1                                  | .9  | .6  | .5  | .3  | .3   | .2    | .0    | .0    |       |       |       |       |       |       |       |      | 2229      | 2231     | 2644     | 2822      |       |       |  |  |
| 52 / 51      | .0                                  | .9  | .9  | .4  | .4  | .3   | .1    | .0    |       |       |       |       |       |       |       |       |      | 2269      | 2272     | 2480     | 2587      |       |       |  |  |
| 50 / 49      | .0                                  | .9  | .9  | .5  | .4  | .2   | .1    | .0    |       |       |       |       |       |       |       |       |      | 2282      | 2283     | 2387     | 2440      |       |       |  |  |
| 48 / 47      | .1                                  | 1.0 | .6  | .5  | .4  | .2   | .0    | .0    |       |       |       |       |       |       |       |       |      | 2094      | 2094     | 2638     | 2423      |       |       |  |  |
| 46 / 45      | .0                                  | 1.2 | .7  | .6  | .4  | .1   | .0    |       |       |       |       |       |       |       |       |       |      | 2321      | 2322     | 2570     | 2278      |       |       |  |  |
| 44 / 43      | .1                                  | 1.0 | .7  | .5  | .3  | .1   | .0    |       |       |       |       |       |       |       |       |       |      | 2122      | 2125     | 2456     | 2212      |       |       |  |  |
| 42 / 41      | .0                                  | 1.0 | .8  | .6  | .3  | .0   |       |       |       |       |       |       |       |       |       |       |      | 2088      | 2090     | 2456     | 2206      |       |       |  |  |
| 40 / 39      | .1                                  | 1.1 | 1.0 | .6  | .3  | .0   |       |       |       |       |       |       |       |       |       |       |      | 2434      | 2435     | 2391     | 2310      |       |       |  |  |
| 38 / 37      | .1                                  | 1.1 | .8  | .7  | .1  | .0   |       |       |       |       |       |       |       |       |       |       |      | 2166      | 2171     | 2551     | 2221      |       |       |  |  |
| 36 / 35      | .2                                  | 1.6 | 1.2 | .5  | .1  |      |       |       |       |       |       |       |       |       |       |       |      | 2658      | 2659     | 2412     | 2375      |       |       |  |  |
| 34 / 33      | .2                                  | 1.9 | 1.3 | .4  | .0  |      |       |       |       |       |       |       |       |       |       |       |      | 2856      | 2859     | 3095     | 2252      |       |       |  |  |
| 32 / 31      | .1                                  | 2.0 | 1.6 | .4  | .0  |      |       |       |       |       |       |       |       |       |       |       |      | 3160      | 3162     | 3050     | 3487      |       |       |  |  |
| 30 / 29      | .2                                  | 1.6 | 1.2 | .2  | .0  |      |       |       |       |       |       |       |       |       |       |       |      | 2407      | 2413     | 3091     | 2675      |       |       |  |  |
| 28 / 27      | .1                                  | 1.6 | .8  | .1  | .0  |      |       |       |       |       |       |       |       |       |       |       |      | 1961      | 1962     | 2632     | 2670      |       |       |  |  |
| Element (X)  | Σ X <sup>2</sup>                    |     | Σ X |     | Σ   |      | Σ     |       | Σ     |       | Σ     |       | Σ     |       | Σ     |       | Σ    |           | Σ        |          |           |       |       |  |  |
| Rel. Hum.    |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
| Dry Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
| Wet Bulb     |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
| Dew Point    |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |
|              |                                     |     |     |     |     |      |       |       |       |       |       |       |       |       |       |       |      |           |          |          |           |       |       |  |  |

FORM 10-65 0-26-5 (OL A) REVERSED PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

USAFETAC

## PSYCHROMETRIC SUMMARY

|               |                          |
|---------------|--------------------------|
| <u>725250</u> | <u>YOUNGSTOWN MAP OH</u> |
| STATION       | STATION NAME             |

73-81

YEARS

**ALL**  
**MONTH**

**PAGE 2**

ALL  
HOURS (L. S. T.)

[illegible]



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

725250 YOUNGSTOWN MAP OH

73-81

| STATION   | STATION NAME | YEARS  |        |        |        |        |       |       |       |       |        |        |        |        |
|-----------|--------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| HRS (LST) | MEAN         | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   | OCT    | NOV    | DEC    | ANNUAL |
| 0-02      | MEAN         | 21.8   | 23.1   | 34.7   | 43.3   | 51.7   | 60.1  | 63.5  | 64.0  | 57.0  | 46.3   | 39.2   | 28.6   | 43.9   |
|           | S D          | 12.457 | 13.303 | 11.828 | 11.446 | 9.639  | 8.256 | 6.923 | 6.546 | 8.650 | 8.862  | 10.615 | 10.622 | 17.687 |
|           | TOTAL OBS    | 823    | 749    | 817    | 797    | 771    | 704   | 726   | 734   | 757   | 824    | 790    | 826    | 9318   |
| 03-05     | MEAN         | 21.5   | 22.2   | 33.7   | 41.7   | 50.0   | 58.2  | 62.1  | 62.8  | 55.6  | 45.0   | 38.1   | 28.0   | 42.0   |
|           | S D          | 12.821 | 13.527 | 11.884 | 11.472 | 9.700  | 8.318 | 7.173 | 6.484 | 8.653 | 8.831  | 10.497 | 10.522 | 17.458 |
|           | TOTAL OBS    | 812    | 740    | 805    | 785    | 764    | 702   | 731   | 737   | 759   | 816    | 784    | 809    | 9248   |
| 06-08     | MEAN         | 20.7   | 21.5   | 33.4   | 42.7   | 53.2   | 62.8  | 65.3  | 64.2  | 56.7  | 44.8   | 37.5   | 27.5   | 44.2   |
|           | S D          | 12.657 | 13.839 | 11.867 | 11.210 | 9.435  | 7.545 | 6.360 | 6.062 | 8.370 | 8.533  | 10.595 | 10.650 | 18.479 |
|           | TOTAL OBS    | 823    | 747    | 829    | 799    | 822    | 802   | 821   | 829   | 794   | 824    | 797    | 824    | 9706   |
| 09-11     | MEAN         | 22.5   | 24.8   | 38.1   | 49.4   | 61.2   | 70.0  | 73.7  | 72.0  | 64.5  | 51.2   | 41.1   | 29.1   | 49.9   |
|           | S D          | 12.086 | 13.012 | 11.819 | 11.891 | 10.118 | 7.462 | 5.892 | 5.689 | 8.050 | 8.748  | 10.929 | 10.072 | 20.388 |
|           | TOTAL OBS    | 815    | 737    | 823    | 798    | 812    | 787   | 818   | 813   | 789   | 821    | 797    | 824    | 9634   |
| 12-14     | MEAN         | 25.5   | 29.0   | 42.5   | 53.8   | 65.7   | 74.0  | 78.0  | 76.4  | 69.2  | 56.3   | 45.0   | 32.0   | 54.1   |
|           | S D          | 11.491 | 12.176 | 12.568 | 12.694 | 10.692 | 7.933 | 6.151 | 5.920 | 8.422 | 9.890  | 11.856 | 9.801  | 20.872 |
|           | TOTAL OBS    | 822    | 749    | 816    | 797    | 823    | 800   | 822   | 818   | 798   | 824    | 799    | 827    | 9697   |
| 15-17     | MEAN         | 26.2   | 30.0   | 43.8   | 54.8   | 66.3   | 74.6  | 78.6  | 77.1  | 69.7  | 56.4   | 45.3   | 32.3   | 54.7   |
|           | S D          | 11.434 | 12.047 | 13.051 | 12.655 | 10.727 | 7.729 | 6.271 | 6.039 | 8.393 | 10.179 | 11.967 | 10.052 | 20.873 |
|           | TOTAL OBS    | 817    | 751    | 818    | 795    | 815    | 785   | 815   | 817   | 792   | 820    | 792    | 821    | 9638   |
| 18-20     | MEAN         | 23.8   | 27.0   | 40.0   | 50.2   | 61.6   | 70.1  | 74.0  | 71.8  | 63.2  | 50.9   | 41.4   | 30.1   | 50.4   |
|           | S D          | 11.590 | 12.480 | 12.456 | 11.979 | 10.112 | 7.724 | 6.198 | 5.973 | 8.410 | 9.109  | 11.072 | 10.191 | 19.871 |
|           | TOTAL OBS    | 826    | 746    | 821    | 797    | 821    | 795   | 828   | 821   | 798   | 821    | 800    | 826    | 9700   |
| 21-23     | MEAN         | 22.5   | 24.9   | 36.7   | 45.9   | 54.7   | 62.8  | 66.7  | 66.0  | 58.4  | 47.6   | 39.8   | 29.2   | 45.9   |
|           | S D          | 11.978 | 13.002 | 11.961 | 11.277 | 9.369  | 8.066 | 6.246 | 6.043 | 8.401 | 8.863  | 10.950 | 10.406 | 18.074 |
|           | TOTAL OBS    | 824    | 747    | 820    | 794    | 786    | 733   | 760   | 762   | 770   | 822    | 791    | 818    | 9427   |
| ALL HOURS | MEAN         | 23.1   | 25.3   | 37.9   | 47.7   | 58.2   | 66.7  | 70.9  | 69.8  | 61.9  | 49.8   | 40.9   | 29.6   | 48.3   |
|           | S D          | 12.206 | 13.256 | 12.730 | 12.753 | 11.656 | 9.905 | 8.861 | 8.124 | 9.957 | 10.146 | 11.399 | 10.443 | 19.766 |
|           | TOTAL OBS    | 6562   | 5968   | 6544   | 6362   | 6414   | 6108  | 6321  | 6331  | 6257  | 6574   | 6350   | 6375   | 76348  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

72-250 YOUNGSTOWN MAP OH

73-81

| STATION   |           | STATION NAME |        |        |        |       |       |       |       |       |       |        |        | YEARS  |  |  |  |  |  |  |  |  |  |  |  |
|-----------|-----------|--------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|
| HRS (LST) |           | JAN          | FEB.   | MAR.   | APR.   | MAY   | JUN   | JUL   | AUG   | SEP   | OCT   | NOV    | DEC    | ANNUAL |  |  |  |  |  |  |  |  |  |  |  |
| 0-02      | MEAN      | 20.2         | 21.1   | 31.5   | 39.3   | 47.9  | 56.7  | 60.7  | 61.4  | 54.2  | 43.2  | 36.4   | 26.6   | 41.1   |  |  |  |  |  |  |  |  |  |  |  |
|           | S D       | 11.689       | 12.229 | 10.643 | 10.038 | 9.022 | 7.683 | 6.516 | 6.252 | 8.511 | 8.269 | 9.963  | 9.940  | 16.973 |  |  |  |  |  |  |  |  |  |  |  |
|           | TOTAL OBS | 823          | 748    | 816    | 797    | 771   | 704   | 726   | 733   | 756   | 823   | 790    | 826    | 9313   |  |  |  |  |  |  |  |  |  |  |  |
| 03-05     | MEAN      | 20.0         | 20.3   | 30.9   | 38.3   | 46.8  | 55.4  | 59.8  | 60.7  | 53.2  | 42.3  | 35.6   | 26.0   | 40.4   |  |  |  |  |  |  |  |  |  |  |  |
|           | S D       | 12.067       | 12.482 | 10.970 | 10.191 | 9.225 | 7.900 | 6.822 | 6.359 | 8.575 | 8.405 | 9.901  | 9.869  | 16.917 |  |  |  |  |  |  |  |  |  |  |  |
|           | TOTAL OBS | 812          | 736    | 802    | 784    | 763   | 701   | 730   | 734   | 756   | 815   | 783    | 808    | 9224   |  |  |  |  |  |  |  |  |  |  |  |
| 6-08      | MEAN      | 19.4         | 19.8   | 30.8   | 39.0   | 49.2  | 58.2  | 62.1  | 61.7  | 54.1  | 42.1  | 35.2   | 25.6   | 41.6   |  |  |  |  |  |  |  |  |  |  |  |
|           | S D       | 12.022       | 12.781 | 11.021 | 9.792  | 8.868 | 7.042 | 5.951 | 5.931 | 8.288 | 8.281 | 10.079 | 10.006 | 17.678 |  |  |  |  |  |  |  |  |  |  |  |
|           | TOTAL OBS | 821          | 747    | 823    | 798    | 822   | 801   | 819   | 829   | 793   | 823   | 797    | 823    | 9696   |  |  |  |  |  |  |  |  |  |  |  |
| 9-11      | MEAN      | 21.0         | 22.6   | 34.3   | 43.2   | 53.6  | 62.2  | 66.1  | 65.9  | 58.9  | 46.5  | 37.7   | 27.0   | 45.0   |  |  |  |  |  |  |  |  |  |  |  |
|           | S D       | 11.516       | 11.808 | 10.688 | 9.660  | 8.643 | 6.545 | 5.247 | 5.062 | 7.392 | 8.074 | 10.053 | 9.434  | 16.159 |  |  |  |  |  |  |  |  |  |  |  |
|           | TOTAL OBS | 815          | 737    | 822    | 798    | 812   | 786   | 818   | 811   | 788   | 821   | 797    | 824    | 9629   |  |  |  |  |  |  |  |  |  |  |  |
| 12-14     | MEAN      | 23.3         | 25.8   | 37.2   | 45.5   | 58.4  | 63.6  | 67.2  | 67.3  | 60.6  | 48.9  | 39.9   | 29.1   | 47.1   |  |  |  |  |  |  |  |  |  |  |  |
|           | S D       | 10.819       | 11.018 | 10.846 | 9.645  | 8.353 | 6.638 | 5.189 | 4.994 | 7.392 | 8.323 | 10.184 | 8.972  | 17.672 |  |  |  |  |  |  |  |  |  |  |  |
|           | TOTAL OBS | 821          | 748    | 815    | 795    | 823   | 798   | 821   | 814   | 798   | 826   | 799    | 827    | 9685   |  |  |  |  |  |  |  |  |  |  |  |
| 15-17     | MEAN      | 23.7         | 26.4   | 37.7   | 45.9   | 55.5  | 63.6  | 67.2  | 67.2  | 60.6  | 48.6  | 39.9   | 29.2   | 47.2   |  |  |  |  |  |  |  |  |  |  |  |
|           | S D       | 10.634       | 10.868 | 10.805 | 9.503  | 8.214 | 6.437 | 5.878 | 4.967 | 7.245 | 8.438 | 10.114 | 9.154  | 17.490 |  |  |  |  |  |  |  |  |  |  |  |
|           | TOTAL OBS | 816          | 751    | 818    | 795    | 815   | 785   | 814   | 815   | 790   | 820   | 791    | 819    | 9629   |  |  |  |  |  |  |  |  |  |  |  |
| 18-20     | MEAN      | 21.7         | 24.2   | 35.0   | 43.3   | 53.3  | 61.7  | 68.7  | 68.2  | 57.8  | 45.5  | 37.6   | 27.7   | 45.0   |  |  |  |  |  |  |  |  |  |  |  |
|           | S D       | 10.823       | 11.458 | 10.622 | 9.637  | 8.522 | 6.719 | 5.234 | 5.215 | 7.761 | 8.209 | 10.063 | 9.575  | 17.586 |  |  |  |  |  |  |  |  |  |  |  |
|           | TOTAL OBS | 826          | 746    | 821    | 795    | 821   | 794   | 828   | 821   | 798   | 819   | 800    | 823    | 9694   |  |  |  |  |  |  |  |  |  |  |  |
| 21-23     | MEAN      | 20.8         | 22.6   | 33.0   | 40.8   | 49.8  | 58.3  | 62.6  | 62.6  | 55.0  | 43.9  | 36.6   | 27.1   | 42.5   |  |  |  |  |  |  |  |  |  |  |  |
|           | S D       | 11.217       | 12.068 | 10.619 | 9.902  | 8.762 | 7.452 | 5.870 | 5.765 | 8.188 | 8.204 | 10.189 | 9.925  | 17.062 |  |  |  |  |  |  |  |  |  |  |  |
|           | TOTAL OBS | 822          | 745    | 820    | 794    | 785   | 732   | 760   | 761   | 769   | 822   | 790    | 817    | 9517   |  |  |  |  |  |  |  |  |  |  |  |
| ALL HOURS | MEAN      | 21.3         | 22.9   | 33.8   | 41.9   | 51.9  | 60.1  | 64.0  | 64.1  | 56.8  | 45.1  | 37.4   | 27.3   | 43.7   |  |  |  |  |  |  |  |  |  |  |  |
|           | S D       | 11.444       | 12.071 | 11.066 | 10.179 | 9.266 | 7.632 | 6.368 | 6.113 | 8.412 | 8.650 | 10.193 | 9.688  | 17.633 |  |  |  |  |  |  |  |  |  |  |  |
|           | TOTAL OBS | 6584         | 5958   | 6537   | 6356   | 6412  | 6101  | 6316  | 6318  | 6248  | 6569  | 6347   | 6567   | 76287  |  |  |  |  |  |  |  |  |  |  |  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

725250 YOUNGSTOWN MAP OH

73-81

| STATION   |           | STATION NAME |        |        |        |        |       |       |       |       |        |        |        | YEARS  |  |
|-----------|-----------|--------------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--|
| HRS (LST) |           | JAN          | FEB    | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   | OCT    | NOV    | DEC    | ANNUAL |  |
| 0-02      | MEAN      | 15.3         | 15.3   | 25.8   | 34.1   | 43.9   | 54.3  | 58.9  | 59.8  | 51.9  | 39.5   | 32.1   | 21.8   | 37.2   |  |
|           | S.D.      | 12.653       | 13.175 | 11.896 | 11.040 | 10.381 | 8.144 | 6.880 | 6.575 | 9.228 | 9.210  | 10.987 | 10.927 | 18.553 |  |
|           | TOTAL OBS | 823          | 748    | 816    | 797    | 771    | 704   | 726   | 733   | 756   | 823    | 790    | 826    | 9313   |  |
| 3-05      | MEAN      | 15.2         | 14.7   | 25.5   | 33.6   | 43.5   | 53.4  | 58.3  | 59.3  | 51.2  | 39.1   | 31.6   | 21.4   | 36.8   |  |
|           | S.D.      | 13.033       | 13.347 | 12.306 | 10.989 | 10.322 | 8.345 | 7.107 | 6.696 | 9.211 | 9.286  | 10.903 | 10.795 | 18.519 |  |
|           | TOTAL OBS | 812          | 736    | 802    | 784    | 763    | 701   | 730   | 734   | 756   | 815    | 783    | 808    | 9224   |  |
| 6-08      | MEAN      | 15.0         | 14.4   | 25.7   | 34.1   | 45.3   | 55.6  | 60.1  | 60.1  | 52.1  | 39.1   | 31.4   | 21.1   | 38.0   |  |
|           | S.D.      | 13.040       | 13.488 | 12.309 | 10.451 | 10.127 | 7.712 | 6.467 | 6.366 | 8.957 | 9.224  | 11.040 | 10.861 | 19.060 |  |
|           | TOTAL OBS | 821          | 747    | 823    | 798    | 822    | 801   | 819   | 829   | 793   | 823    | 797    | 823    | 9696   |  |
| 9-11      | MEAN      | 16.4         | 16.7   | 28.1   | 35.9   | 46.8   | 57.0  | 61.5  | 62.2  | 54.8  | 41.5   | 33.0   | 22.2   | 39.8   |  |
|           | S.D.      | 12.785       | 12.752 | 12.283 | 10.679 | 10.695 | 8.065 | 6.799 | 6.291 | 8.595 | 9.434  | 11.037 | 10.519 | 19.064 |  |
|           | TOTAL OBS | 815          | 737    | 822    | 798    | 812    | 784   | 818   | 811   | 788   | 821    | 797    | 824    | 9629   |  |
| 12-14     | MEAN      | 17.5         | 18.3   | 29.2   | 36.3   | 46.6   | 56.7  | 60.9  | 61.9  | 54.5  | 41.4   | 33.3   | 23.3   | 40.1   |  |
|           | S.D.      | 12.565       | 12.787 | 12.583 | 10.947 | 10.793 | 8.500 | 7.833 | 6.725 | 9.200 | 9.929  | 11.317 | 10.459 | 18.665 |  |
|           | TOTAL OBS | 821          | 798    | 815    | 795    | 823    | 798   | 821   | 814   | 798   | 826    | 799    | 827    | 9685   |  |
| 15-17     | MEAN      | 16.9         | 18.3   | 28.8   | 35.9   | 46.2   | 56.1  | 60.5  | 61.3  | 53.9  | 40.6   | 32.9   | 23.0   | 39.6   |  |
|           | S.D.      | 12.384       | 12.939 | 12.500 | 11.205 | 10.826 | 8.638 | 7.036 | 6.816 | 9.200 | 10.127 | 11.242 | 10.602 | 18.612 |  |
|           | TOTAL OBS | 816          | 751    | 818    | 795    | 815    | 785   | 814   | 815   | 790   | 820    | 791    | 819    | 9629   |  |
| 18-20     | MEAN      | 15.8         | 17.1   | 27.2   | 35.0   | 45.7   | 55.8  | 60.6  | 61.1  | 53.6  | 40.0   | 32.1   | 22.5   | 39.0   |  |
|           | S.D.      | 12.149       | 13.227 | 12.078 | 11.355 | 11.154 | 8.549 | 6.757 | 6.471 | 8.889 | 9.620  | 11.216 | 10.973 | 18.883 |  |
|           | TOTAL OBS | 826          | 746    | 821    | 795    | 821    | 794   | 828   | 821   | 798   | 819    | 800    | 825    | 9694   |  |
| 21-23     | MEAN      | 15.5         | 16.6   | 26.6   | 34.8   | 45.1   | 55.1  | 59.9  | 60.4  | 52.2  | 39.6   | 31.9   | 22.3   | 38.0   |  |
|           | S.D.      | 12.174       | 13.417 | 11.988 | 11.371 | 10.499 | 8.138 | 6.563 | 6.310 | 8.942 | 9.321  | 11.149 | 11.103 | 18.624 |  |
|           | TOTAL OBS | 822          | 745    | 820    | 794    | 785    | 732   | 760   | 761   | 769   | 822    | 790    | 817    | 9417   |  |
| ALL HOURS | MEAN      | 15.9         | 16.4   | 27.1   | 35.0   | 45.4   | 55.5  | 60.1  | 60.8  | 53.0  | 40.1   | 32.3   | 22.2   | 38.6   |  |
|           | S.D.      | 12.619       | 13.211 | 12.310 | 11.043 | 10.662 | 8.336 | 6.897 | 6.601 | 9.108 | 9.563  | 11.127 | 10.799 | 18.787 |  |
|           | TOTAL OBS | 6556         | 5958   | 6537   | 6356   | 6412   | 6181  | 6316  | 6318  | 6248  | 6569   | 6347   | 6569   | 76287  |  |

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FORM  
FD-36

0-87-5 (DL A)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81

PERIOD

FEB  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--|-------|-------|------|------|------|------|------|------|------------------------------|-------------------------|
|        |                   | 10%  | 20%   | 30%   | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                         |
| FEB    | 00-02             | 100.0  | 100.0 | 100.0 | 99.2 | 94.5 | 82.9 | 63.5 | 27.7 | 8.7  | 73.0                         | 748                     |
|        | 03-05             | 100.0  | 100.0 | 100.0 | 99.3 | 94.0 | 83.7 | 64.5 | 29.1 | 10.3 | 73.7                         | 736                     |
|        | 06-08             | 100.0  | 100.0 | 100.0 | 99.6 | 95.4 | 86.1 | 64.8 | 32.5 | 12.9 | 74.8                         | 747                     |
|        | 09-11             | 100.0  | 100.0 | 100.0 | 99.3 | 92.8 | 81.0 | 56.4 | 26.7 | 10.0 | 72.1                         | 737                     |
|        | 12-14             | 100.0  | 100.0 | 99.9  | 96.4 | 86.1 | 60.3 | 34.5 | 14.0 | 5.3  | 65.3                         | 748                     |
|        | 15-17             | 100.0  | 100.0 | 99.5  | 93.6 | 78.7 | 51.3 | 30.5 | 13.2 | 6.0  | 63.0                         | 751                     |
|        | 18-20             | 100.0  | 100.0 | 99.9  | 96.2 | 89.1 | 68.0 | 40.2 | 17.7 | 6.6  | 67.2                         | 746                     |
|        | 21-23             | 100.0  | 100.0 | 100.0 | 98.5 | 93.4 | 80.3 | 54.9 | 22.4 | 7.5  | 71.5                         | 745                     |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
| TOTALS |                   | 100.0  | 100.0 | 99.9  | 97.8 | 90.5 | 74.2 | 51.2 | 22.9 | 8.4  | 70.1                         | 5958                    |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

725250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
PERIOD

MAR  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|----------------|--|-------|-------|------|------|------|------|------|------|------------------------------|-------------------------|
|        |                | 10%  | 20%   | 30%   | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                         |
| MAR    | 00-02          | 100.0  | 100.0 | 99.6  | 97.7 | 91.1 | 74.9 | 52.8 | 27.5 | 8.7  | 70.9                         | 816                     |
|        | 03-05          | 100.0  | 100.0 | 100.0 | 99.1 | 92.1 | 79.6 | 59.2 | 31.8 | 10.0 | 72.9                         | 802                     |
|        | 06-08          | 100.0  | 100.0 | 100.0 | 99.9 | 93.9 | 82.9 | 62.8 | 36.9 | 10.9 | 74.3                         | 823                     |
|        | 09-11          | 100.0  | 100.0 | 99.6  | 96.6 | 87.2 | 69.1 | 44.9 | 26.6 | 8.5  | 68.6                         | 822                     |
|        | 12-14          | 100.0  | 100.0 | 97.8  | 90.6 | 72.1 | 47.6 | 29.4 | 17.4 | 5.4  | 61.4                         | 815                     |
|        | 15-17          | 100.0  | 99.9  | 95.4  | 84.0 | 61.2 | 42.2 | 26.7 | 14.8 | 4.8  | 58.3                         | 818                     |
|        | 18-20          | 100.0  | 100.0 | 98.3  | 89.5 | 72.4 | 52.9 | 32.8 | 17.2 | 5.0  | 62.4                         | 821                     |
|        | 21-23          | 100.0  | 100.0 | 99.5  | 96.1 | 87.2 | 69.3 | 44.5 | 22.9 | 6.6  | 68.3                         | 820                     |
|        |                |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                |  |       |       |      |      |      |      |      |      |                              |                         |
| TOTALS |                | 100.0  | 100.0 | 98.8  | 94.2 | 82.2 | 64.8 | 44.1 | 24.4 | 7.5  | 67.1                         | 6537                    |

USAFETAC

FORM  
200 64

0-87-5 (OL A)

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

72:25:1  
STATION

YOUNGSTOWN MAP OH

STATION NAME

73-81

PERIOD

APR  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |      |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--|-------|------|------|------|------|------|------|------|------------------------------|-------------------------|
|        |                   | 10%  | 20%   | 30%  | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                         |
| APR    | 00-02             | 100.0  | 100.0 | 99.6 | 96.5 | 88.3 | 73.4 | 55.5 | 37.3 | 9.2  | 71.8                         | 797                     |
|        | 03-05             | 100.0  | 100.0 | 99.9 | 97.4 | 92.1 | 80.6 | 62.0 | 42.5 | 11.6 | 74.2                         | 784                     |
|        | 06-08             | 100.0  | 100.0 | 99.6 | 98.0 | 91.9 | 79.2 | 59.3 | 37.2 | 9.9  | 73.3                         | 798                     |
|        | 09-11             | 100.0  | 100.0 | 97.4 | 88.3 | 71.7 | 53.0 | 33.3 | 18.2 | 4.1  | 62.4                         | 798                     |
|        | 12-14             | 100.0  | 99.4  | 91.9 | 73.0 | 53.3 | 36.7 | 25.3 | 14.8 | 2.6  | 55.1                         | 795                     |
|        | 15-17             | 100.0  | 98.9  | 85.9 | 65.3 | 47.5 | 34.7 | 25.2 | 11.2 | 3.4  | 52.9                         | 795                     |
|        | 18-20             | 100.0  | 99.4  | 94.3 | 79.5 | 61.8 | 44.8 | 31.8 | 17.2 | 3.9  | 59.0                         | 795                     |
|        | 21-23             | 100.0  | 100.0 | 99.2 | 94.6 | 82.4 | 65.1 | 45.5 | 28.8 | 8.2  | 68.1                         | 794                     |
|        |                   |  |       |      |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |      |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |      |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |      |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |      |      |      |      |      |      |      |                              |                         |
| TOTALS |                   | 100.0  | 99.7  | 96.0 | 86.6 | 73.6 | 58.4 | 42.2 | 25.9 | 6.6  | 64.6                         | 6356                    |

725250  
STATION

YOUNGSTOWN MAP OH

**73-81**

MAY

STATION NAME

PERIOD

**MONTH**

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--|-------|-------|------|------|------|------|------|------|------------------------------|-------------------------|
|        |                   | 10%  | 20%   | 30%   | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                         |
| MAY    | 00-02             | 100.0  | 100.0 | 100.0 | 97.8 | 93.1 | 82.9 | 66.7 | 44.0 | 19.8 | 76.1                         | 771                     |
|        | 03-05             | 100.0  | 100.0 | 100.0 | 99.6 | 96.1 | 87.8 | 76.7 | 53.9 | 22.1 | 79.3                         | 763                     |
|        | 06-08             | 100.0  | 100.0 | 100.0 | 99.5 | 92.6 | 81.3 | 65.7 | 45.7 | 18.0 | 76.0                         | 822                     |
|        | 09-11             | 100.0  | 100.0 | 97.7  | 85.3 | 69.3 | 50.5 | 34.4 | 17.2 | 4.6  | 61.7                         | 812                     |
|        | 12-14             | 100.0  | 99.4  | 90.2  | 71.2 | 49.3 | 32.4 | 20.7 | 9.8  | 2.9  | 53.3                         | 823                     |
|        | 15-17             | 100.0  | 98.8  | 87.0  | 65.6 | 46.3 | 29.8 | 20.9 | 10.1 | 2.8  | 51.7                         | 815                     |
|        | 18-20             | 100.0  | 99.9  | 94.3  | 79.2 | 61.3 | 45.8 | 31.5 | 17.2 | 5.1  | 59.0                         | 821                     |
|        | 21-23             | 100.0  | 100.0 | 99.9  | 95.9 | 88.9 | 74.1 | 55.4 | 33.8 | 11.7 | 71.6                         | 785                     |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
| TOTALS |                   | 100.0  | 99.8  | 96.1  | 86.8 | 74.6 | 60.6 | 46.5 | 29.0 | 10.9 | 66.1                         | 6412                    |



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**JUN**  
**MONTH**

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GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

72250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
PERIOD

JUL  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(LST) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|----------------|--|-------|-------|-------|-------|------|------|------|------|------------------------------|-------------------------|
|        |                | 10%  | 20%   | 30%   | 40%   | 50%   | 60%  | 70%  | 80%  | 90%  |                              |                         |
| JUL    | 00-02          | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 98.8 | 93.7 | 72.9 | 25.6 | 84.8                         | 726                     |
|        | 03-05          | 100.0  | 100.0 | 100.0 | 100.0 | 99.7  | 99.3 | 95.3 | 83.3 | 35.3 | 87.4                         | 730                     |
|        | 06-08          | 100.0  | 100.0 | 100.0 | 100.0 | 99.8  | 97.8 | 87.1 | 67.2 | 24.4 | 83.5                         | 819                     |
|        | 09-11          | 100.0  | 100.0 | 99.8  | 98.5  | 88.3  | 64.1 | 40.0 | 18.9 | 3.5  | 66.8                         | 818                     |
|        | 12-14          | 100.0  | 100.0 | 99.4  | 91.4  | 62.5  | 35.3 | 16.8 | 7.1  | 2.1  | 57.0                         | 821                     |
|        | 15-17          | 100.0  | 100.0 | 99.3  | 87.8  | 54.7  | 30.1 | 16.1 | 8.7  | 1.7  | 55.5                         | 814                     |
|        | 18-20          | 100.0  | 100.0 | 100.0 | 97.1  | 82.4  | 57.9 | 32.2 | 14.6 | 2.7  | 64.4                         | 828                     |
|        | 21-23          | 100.0  | 100.0 | 100.0 | 100.0 | 99.7  | 96.4 | 79.1 | 48.3 | 11.3 | 79.3                         | 760                     |
|        |                |  |       |       |       |       |      |      |      |      |                              |                         |
|        |                |  |       |       |       |       |      |      |      |      |                              |                         |
|        |                |  |       |       |       |       |      |      |      |      |                              |                         |
|        |                |  |       |       |       |       |      |      |      |      |                              |                         |
|        |                |  |       |       |       |       |      |      |      |      |                              |                         |
| TOTALS |                | 100.0  | 100.0 | 99.8  | 96.9  | 85.9  | 72.5 | 57.5 | 40.1 | 13.3 | 72.3                         | 6316                    |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

725250  
STATION

YOUNGSTOWN MAP OH

73-81

AUG

STATION

STATION NAME

PERIOD

**MONTH**

**CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |       |       |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--|-------|-------|-------|-------|-------|------|------|------|------------------------------|-------------------------|
|        |                   | 10%  | 20%   | 30%   | 40%   | 50%   | 60%   | 70%  | 80%  | 90%  |                              |                         |
| AUG    | 00-02             | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 97.7 | 79.3 | 27.0 | 86.3                         | 733                     |
|        | 03-05             | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.7  | 98.1 | 85.6 | 36.1 | 88.1                         | 734                     |
|        | 06-08             | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.3  | 95.2 | 79.1 | 30.6 | 86.5                         | 829                     |
|        | 09-11             | 100.0  | 100.0 | 100.0 | 99.5  | 95.4  | 79.9  | 54.0 | 30.3 | 7.2  | 72.2                         | 811                     |
|        | 12-14             | 100.0  | 100.0 | 99.9  | 96.4  | 77.6  | 50.0  | 28.4 | 11.7 | 2.2  | 62.1                         | 814                     |
|        | 15-17             | 100.0  | 100.0 | 100.0 | 93.9  | 69.2  | 42.0  | 23.4 | 11.7 | 2.6  | 59.8                         | 815                     |
|        | 18-20             | 100.0  | 100.0 | 100.0 | 99.0  | 92.1  | 75.3  | 48.6 | 23.1 | 4.9  | 70.0                         | 821                     |
|        | 21-23             | 100.0  | 100.0 | 100.0 | 100.0 | 100.0 | 99.7  | 88.6 | 62.4 | 12.7 | 82.2                         | 761                     |
|        |                   |  |       |       |       |       |       |      |      |      |                              |                         |
|        |                   |  |       |       |       |       |       |      |      |      |                              |                         |
|        |                   |  |       |       |       |       |       |      |      |      |                              |                         |
|        |                   |  |       |       |       |       |       |      |      |      |                              |                         |
| TOTALS |                   | 100.0  | 100.0 | 100.0 | 98.6  | 91.8  | 80.7  | 66.8 | 47.9 | 15.4 | 75.9                         | 6318                    |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AFW WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

72525  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
PERIOD

SEP  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(LST.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|-----------------|--|-------|-------|-------|------|------|------|------|------|------------------------------|-------------------------|
|        |                 | 10%  | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                         |
| SEP    | 00-02           | 100.0  | 100.0 | 100.0 | 100.0 | 99.7 | 98.3 | 90.5 | 65.6 | 16.3 | 83.2                         | 756                     |
|        | 03-05           | 100.0  | 100.0 | 100.0 | 100.0 | 99.9 | 98.7 | 93.9 | 72.5 | 24.1 | 85.0                         | 756                     |
|        | 06-08           | 100.0  | 100.0 | 100.0 | 100.0 | 99.9 | 99.1 | 93.3 | 70.4 | 24.6 | 84.7                         | 793                     |
|        | 09-11           | 100.0  | 100.0 | 100.0 | 99.4  | 95.8 | 78.2 | 50.5 | 26.6 | 8.6  | 71.7                         | 788                     |
|        | 12-14           | 100.0  | 100.0 | 99.5  | 96.9  | 70.8 | 42.2 | 25.3 | 14.0 | 2.6  | 60.9                         | 798                     |
|        | 15-17           | 100.0  | 100.0 | 99.5  | 92.4  | 65.8 | 36.7 | 22.8 | 10.8 | 1.8  | 58.6                         | 790                     |
|        | 18-20           | 100.0  | 100.0 | 100.0 | 99.5  | 95.6 | 80.2 | 55.8 | 23.8 | 3.0  | 71.6                         | 798                     |
|        | 21-23           | 100.0  | 100.0 | 100.0 | 100.0 | 99.9 | 96.6 | 86.0 | 51.8 | 7.8  | 80.3                         | 769                     |
|        |                 |  |       |       |       |      |      |      |      |      |                              |                         |
|        |                 |  |       |       |       |      |      |      |      |      |                              |                         |
|        |                 |  |       |       |       |      |      |      |      |      |                              |                         |
|        |                 |  |       |       |       |      |      |      |      |      |                              |                         |
| TOTALS |                 | 100.0  | 100.0 | 99.9  | 98.5  | 90.9 | 78.8 | 64.8 | 41.9 | 11.1 | 74.5                         | 6248                    |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

72-250  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
PERIOD

OCT  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--|-------|-------|-------|------|------|------|------|------|------------------------------|-------------------------|
|        |                   | 10%  | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                         |
| OCT    | 00-02             | 100.0  | 100.0 | 100.0 | 99.4  | 97.0 | 88.9 | 74.1 | 52.5 | 12.9 | 78.1                         | 823                     |
|        | 03-05             | 100.0  | 100.0 | 100.0 | 99.9  | 98.5 | 93.7 | 79.9 | 58.0 | 16.7 | 80.3                         | 815                     |
|        | 06-08             | 100.0  | 100.0 | 100.0 | 100.0 | 99.1 | 96.5 | 83.4 | 57.6 | 19.0 | 81.2                         | 823                     |
|        | 09-11             | 100.0  | 100.0 | 100.0 | 98.8  | 92.1 | 74.3 | 49.5 | 25.7 | 7.2  | 70.6                         | 821                     |
|        | 12-14             | 100.0  | 100.0 | 98.3  | 89.6  | 68.6 | 41.3 | 22.9 | 13.1 | 2.7  | 59.3                         | 826                     |
|        | 15-17             | 100.0  | 100.0 | 96.5  | 84.9  | 63.2 | 39.1 | 22.4 | 12.6 | 1.6  | 57.6                         | 820                     |
|        | 18-20             | 100.0  | 100.0 | 100.0 | 95.7  | 87.3 | 72.4 | 47.5 | 23.0 | 4.0  | 68.7                         | 819                     |
|        | 21-23             | 100.0  | 100.0 | 100.0 | 98.7  | 93.4 | 84.9 | 65.6 | 40.0 | 7.8  | 74.7                         | 822                     |
|        |                   |  |       |       |       |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |       |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |       |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |       |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |       |      |      |      |      |      |                              |                         |
| TOTALS |                   | 100.0  | 100.0 | 99.4  | 95.9  | 87.4 | 73.9 | 55.7 | 35.3 | 9.0  | 71.3                         | 6569                    |

## RELATIVE HUMIDITY

NOV  
MON

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--|-------|-------|------|------|------|------|------|------|------------------------------|-------------------------|
|        |                   | 10%  | 20%   | 30%   | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                         |
| NOV    | 00-02             | 107.0  | 100.0 | 99.7  | 99.2 | 96.6 | 89.5 | 72.0 | 39.6 | 10.5 | 76.3                         | 790                     |
|        | 03-05             | 100.0  | 100.0 | 100.0 | 99.4 | 98.0 | 92.0 | 75.2 | 46.1 | 13.5 | 77.8                         | 783                     |
|        | 06-08             | 100.0  | 100.0 | 100.0 | 99.7 | 98.5 | 94.5 | 80.3 | 50.7 | 14.6 | 79.3                         | 797                     |
|        | 09-11             | 100.0  | 100.0 | 99.7  | 99.2 | 95.1 | 83.7 | 61.4 | 35.4 | 11.2 | 74.1                         | 797                     |
|        | 12-14             | 100.0  | 100.0 | 98.0  | 95.0 | 82.7 | 61.6 | 36.5 | 23.2 | 6.0  | 65.7                         | 799                     |
|        | 15-17             | 100.0  | 100.0 | 97.2  | 91.7 | 76.1 | 57.8 | 37.4 | 18.8 | 4.6  | 64.2                         | 791                     |
|        | 18-20             | 100.0  | 100.0 | 99.6  | 97.6 | 89.6 | 76.1 | 53.3 | 26.9 | 6.5  | 70.7                         | 800                     |
|        | 21-23             | 100.0  | 100.0 | 99.6  | 99.0 | 94.4 | 85.2 | 65.4 | 35.6 | 8.0  | 74.3                         | 790                     |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |      |      |      |      |      |      |                              |                         |
| TOTALS |                   | 100.0  | 100.0 | 99.2  | 97.6 | 91.4 | 80.1 | 60.2 | 34.5 | 9.4  | 72.8                         | 6347                    |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

72-25  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
PERIOD

DEC  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |       |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--|-------|-------|-------|------|------|------|------|------|------------------------------|-------------------------|
|        |                   | 10%  | 20%   | 30%   | 40%   | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                         |
| DEC    | 00-02             | 100.0  | 100.0 | 100.0 | 99.6  | 97.6 | 89.1 | 67.8 | 38.1 | 11.5 | 76.2                         | 826                     |
|        | 03-05             | 100.0  | 100.0 | 100.0 | 100.0 | 97.9 | 90.8 | 72.5 | 40.2 | 10.8 | 76.8                         | 808                     |
|        | 06-08             | 100.0  | 100.0 | 100.0 | 100.0 | 98.2 | 92.8 | 74.2 | 44.0 | 11.8 | 77.5                         | 823                     |
|        | 09-11             | 100.0  | 100.0 | 100.0 | 99.6  | 97.5 | 89.4 | 68.0 | 40.8 | 11.4 | 76.3                         | 824                     |
|        | 12-14             | 100.0  | 100.0 | 100.0 | 98.3  | 92.3 | 76.4 | 50.4 | 28.8 | 10.3 | 71.1                         | 827                     |
|        | 15-17             | 100.0  | 100.0 | 100.0 | 98.9  | 91.3 | 71.1 | 46.5 | 25.5 | 8.2  | 69.8                         | 819                     |
|        | 18-20             | 100.0  | 100.0 | 100.0 | 99.4  | 96.4 | 85.7 | 58.2 | 32.4 | 12.0 | 73.8                         | 825                     |
|        | 21-23             | 100.0  | 100.0 | 100.0 | 99.1  | 97.8 | 89.2 | 68.2 | 37.1 | 11.5 | 75.9                         | 817                     |
|        |                   |  |       |       |       |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |       |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |       |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |       |      |      |      |      |      |                              |                         |
|        |                   |  |       |       |       |      |      |      |      |      |                              |                         |
| TOTALS |                   | 100.0  | 100.0 | 100.0 | 99.4  | 96.1 | 85.6 | 63.2 | 35.9 | 10.9 | 74.7                         | 6569                    |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## RELATIVE HUMIDITY

72-25  
STATION

YOUNGSTOWN MAP OH  
STATION NAME

73-81  
PERIOD

ALL  
MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

| MONTH  | HOURS<br>(L.S.T.) | PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN |       |       |      |      |      |      |      |      | MEAN<br>RELATIVE<br>HUMIDITY | TOTAL<br>NO. OF<br>OBS. |
|--------|-------------------|--|-------|-------|------|------|------|------|------|------|------------------------------|-------------------------|
|        |                   | 10%  | 20%   | 30%   | 40%  | 50%  | 60%  | 70%  | 80%  | 90%  |                              |                         |
| JAN    | ALL               | 100.0  | 100.0 | 99.9  | 99.5 | 96.8 | 87.7 | 66.9 | 32.1 | 6.4  | 74.5                         | 6556                    |
| FEB    |                   | 100.0  | 100.0 | 99.9  | 97.8 | 90.5 | 74.2 | 51.2 | 22.9 | 8.4  | 70.1                         | 5958                    |
| MAR    |                   | 100.0  | 100.0 | 98.8  | 94.2 | 82.2 | 64.8 | 44.1 | 24.4 | 7.5  | 67.1                         | 6537                    |
| APR    |                   | 100.0  | 99.7  | 96.0  | 86.6 | 73.6 | 58.4 | 42.2 | 25.9 | 6.6  | 64.6                         | 6356                    |
| MAY    |                   | 100.0  | 99.8  | 96.1  | 86.8 | 74.6 | 60.6 | 46.5 | 29.0 | 10.9 | 66.1                         | 6412                    |
| JUN    |                   | 100.0  | 100.0 | 99.7  | 94.6 | 83.3 | 68.6 | 52.5 | 32.8 | 10.9 | 70.0                         | 6101                    |
| JUL    |                   | 100.0  | 100.0 | 99.8  | 96.9 | 85.9 | 72.5 | 57.5 | 40.1 | 13.3 | 72.3                         | 6316                    |
| AUG    |                   | 100.0  | 100.0 | 100.0 | 98.6 | 91.8 | 80.7 | 66.8 | 47.9 | 15.4 | 75.9                         | 6318                    |
| SEP    |                   | 100.0  | 100.0 | 99.9  | 98.5 | 90.9 | 78.8 | 64.8 | 41.9 | 11.1 | 74.5                         | 6248                    |
| OCT    |                   | 100.0  | 100.0 | 99.4  | 95.9 | 87.4 | 73.9 | 55.7 | 35.3 | 9.0  | 71.3                         | 6569                    |
| NOV    |                   | 100.0  | 100.0 | 99.2  | 97.6 | 91.4 | 80.1 | 60.2 | 34.5 | 9.4  | 72.8                         | 6347                    |
| DEC    |                   | 100.0  | 100.0 | 100.0 | 99.4 | 96.1 | 85.6 | 63.2 | 35.9 | 10.9 | 74.7                         | 6569                    |
| TOTALS |                   | 100.0  | 100.0 | 99.1  | 95.5 | 87.0 | 73.8 | 56.0 | 33.6 | 10.0 | 71.2                         | 76287                   |



U S AIR FORCE  
ENVIRONMENTAL TECHNICAL  
APPLICATIONS CENTER

PART F

PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited by service as indicated below.

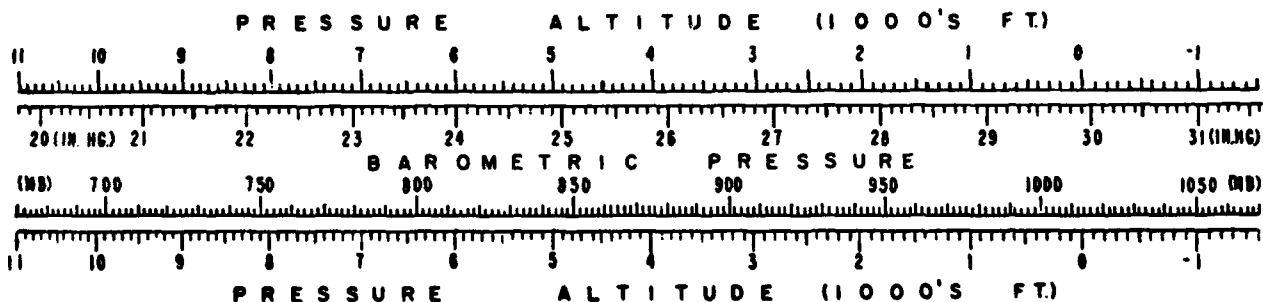
NOTES: Station pressure not reported for all services until late in 1945.

Station pressure reported only at 6-hourly times for Air Force stations from Jan 64 - Jul 65.

METAR stations do not report Sea-level pressure for the period Jan 68 - Dec 70.

1. Station pressure is presented in the table in inches of mercury.
2. Sea-level pressure is presented in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure-altitude in 1000's of feet. This scale is an enlarged model of the pressure-altitude scale in the Smithsonian Meteorological Tables.



GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

725250

YOUNGSTOWN MAP OH

73-81

| STATION     |           | STATION NAME |        |        |        |        |        |        |        |        |        |        |        | YEARS  |  |  |  |  |  |  |  |  |  |  |  |
|-------------|-----------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|
| HRS (L S T) |           | JAN.         | FEB.   | MAR.   | APR.   | MAY    | JUN.   | JUL.   | AUG.   | SEP.   | OCT.   | NOV.   | DEC.   | ANNUAL |  |  |  |  |  |  |  |  |  |  |  |
| 1           | MEAN      | 28.743       | 28.766 | 28.718 | 28.731 | 28.703 | 28.745 | 28.766 | 28.815 | 28.809 | 28.802 | 28.782 | 28.758 | 28.761 |  |  |  |  |  |  |  |  |  |  |  |
|             | S D       | .254         | .239   | .221   | .222   | .154   | .148   | .114   | .110   | .139   | .188   | .215   | .237   | .197   |  |  |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 279          | 253    | 278    | 269    | 262    | 291    | 246    | 247    | 258    | 279    | 270    | 278    | 3160   |  |  |  |  |  |  |  |  |  |  |  |
| 4           | MEAN      | 28.720       | 28.738 | 28.679 | 28.703 | 28.674 | 28.721 | 28.744 | 28.790 | 28.782 | 28.776 | 28.758 | 28.739 | 28.735 |  |  |  |  |  |  |  |  |  |  |  |
|             | S D       | .259         | .243   | .231   | .226   | .157   | .152   | .118   | .110   | .141   | .192   | .210   | .235   | .200   |  |  |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 269          | 245    | 266    | 264    | 299    | 232    | 295    | 245    | 253    | 270    | 259    | 271    | 3067   |  |  |  |  |  |  |  |  |  |  |  |
| 7           | MEAN      | 28.749       | 28.772 | 28.721 | 28.748 | 28.723 | 28.761 | 28.787 | 28.832 | 28.821 | 28.814 | 28.792 | 28.767 | 28.774 |  |  |  |  |  |  |  |  |  |  |  |
|             | S D       | .265         | .248   | .246   | .232   | .160   | .158   | .122   | .111   | .144   | .199   | .215   | .238   | .204   |  |  |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 276          | 253    | 279    | 270    | 276    | 269    | 277    | 278    | 268    | 277    | 267    | 277    | 3267   |  |  |  |  |  |  |  |  |  |  |  |
| 10          | MEAN      | 28.751       | 28.764 | 28.711 | 28.732 | 28.705 | 28.746 | 28.776 | 28.822 | 28.808 | 28.814 | 28.790 | 28.764 | 28.765 |  |  |  |  |  |  |  |  |  |  |  |
|             | S D       | .264         | .252   | .254   | .232   | .159   | .160   | .122   | .110   | .142   | .199   | .214   | .242   | .206   |  |  |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 273          | 248    | 278    | 265    | 267    | 287    | 273    | 271    | 262    | 274    | 267    | 273    | 3201   |  |  |  |  |  |  |  |  |  |  |  |
| 13          | MEAN      | 28.737       | 28.763 | 28.716 | 28.736 | 28.714 | 28.753 | 28.783 | 28.827 | 28.814 | 28.804 | 28.781 | 28.748 | 28.765 |  |  |  |  |  |  |  |  |  |  |  |
|             | S D       | .262         | .255   | .245   | .226   | .149   | .156   | .122   | .107   | .137   | .196   | .212   | .245   | .202   |  |  |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 276          | 252    | 277    | 268    | 276    | 270    | 277    | 276    | 269    | 279    | 269    | 278    | 3267   |  |  |  |  |  |  |  |  |  |  |  |
| 16          | MEAN      | 28.712       | 28.724 | 28.670 | 28.690 | 28.671 | 28.712 | 28.737 | 28.780 | 28.766 | 28.768 | 28.751 | 28.721 | 28.725 |  |  |  |  |  |  |  |  |  |  |  |
|             | S D       | .252         | .247   | .232   | .220   | .143   | .146   | .118   | .104   | .131   | .187   | .204   | .240   | .195   |  |  |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 270          | 250    | 277    | 266    | 279    | 268    | 272    | 273    | 269    | 279    | 263    | 278    | 3226   |  |  |  |  |  |  |  |  |  |  |  |
| 19          | MEAN      | 28.755       | 28.765 | 28.712 | 28.724 | 28.692 | 28.727 | 28.756 | 28.799 | 28.790 | 28.803 | 28.790 | 28.762 | 28.756 |  |  |  |  |  |  |  |  |  |  |  |
|             | S D       | .252         | .245   | .218   | .212   | .140   | .147   | .115   | .104   | .131   | .185   | .203   | .239   | .192   |  |  |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 278          | 252    | 278    | 265    | 277    | 268    | 277    | 276    | 270    | 278    | 267    | 277    | 3263   |  |  |  |  |  |  |  |  |  |  |  |
| 2           | MEAN      | 28.740       | 28.754 | 28.700 | 28.720 | 28.687 | 28.730 | 28.753 | 28.797 | 28.784 | 28.792 | 28.768 | 28.742 | 28.747 |  |  |  |  |  |  |  |  |  |  |  |
|             | S D       | .250         | .239   | .213   | .214   | .142   | .145   | .109   | .102   | .132   | .186   | .206   | .237   | .193   |  |  |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 275          | 249    | 272    | 264    | 287    | 239    | 292    | 298    | 252    | 275    | 264    | 271    | 3105   |  |  |  |  |  |  |  |  |  |  |  |
| ALL HOURS   | MEAN      | 28.739       | 28.754 | 28.704 | 28.723 | 28.697 | 28.737 | 28.763 | 28.808 | 28.797 | 28.797 | 28.777 | 28.750 | 28.754 |  |  |  |  |  |  |  |  |  |  |  |
|             | S D       | .257         | .246   | .233   | .224   | .151   | .153   | .119   | .109   | .138   | .192   | .218   | .239   | .199   |  |  |  |  |  |  |  |  |  |  |  |
|             | TOTAL OBS | 2196         | 1998   | 2202   | 2131   | 2138   | 2051   | 2188   | 2111   | 2096   | 2206   | 2126   | 2203   | 25556  |  |  |  |  |  |  |  |  |  |  |  |

GLOBAL CLIMATOLOGY BRANCH  
USAFETAC  
AIR WEATHER SERVICE/MAC

## MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN HRS FROM HOURLY OBSERVATIONS

12:250 YOUNGSTOWN MAP OH

73-81

| STATION   |           | STATION NAME |        |        |        |        |        |        |        |        |        |        |        | YEARS  |  |
|-----------|-----------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| HRS (LST) |           | JAN.         | FEB.   | MAR.   | APR.   | MAY    | JUN.   | JUL.   | AUG.   | SEP.   | OCT.   | NOV.   | DEC.   | ANNUAL |  |
| 1         | MEAN      | 1017.9       | 1018.6 | 1016.1 | 1016.1 | 1014.7 | 1015.8 | 1016.3 | 1018.1 | 1018.2 | 1018.5 | 1018.3 | 1018.0 | 1017.2 |  |
|           | S. D.     | 9.249        | 8.814  | 8.115  | 8.035  | 8.377  | 8.386  | 4.142  | 3.846  | 5.017  | 6.746  | 7.663  | 8.596  | 7.140  |  |
|           | TOTAL OBS | 279          | 253    | 279    | 269    | 263    | 242    | 246    | 248    | 258    | 279    | 270    | 278    | 3164   |  |
| 4         | MEAN      | 1017.7       | 1018.2 | 1015.6 | 1016.0 | 1014.4 | 1015.6 | 1016.3 | 1017.9 | 1018.0 | 1018.3 | 1018.1 | 1018.0 | 1017.8 |  |
|           | S. D.     | 9.502        | 8.959  | 8.447  | 8.184  | 8.622  | 8.461  | 4.312  | 3.995  | 5.160  | 6.958  | 7.608  | 8.606  | 7.292  |  |
|           | TOTAL OBS | 271          | 245    | 266    | 242    | 250    | 232    | 242    | 249    | 254    | 268    | 259    | 269    | 3067   |  |
| 7         | MEAN      | 1018.2       | 1018.9 | 1016.4 | 1016.8 | 1015.4 | 1016.3 | 1017.2 | 1018.7 | 1018.8 | 1019.1 | 1018.7 | 1018.4 | 1017.7 |  |
|           | S. D.     | 9.643        | 9.065  | 8.973  | 8.246  | 8.701  | 8.683  | 4.334  | 4.046  | 5.239  | 7.188  | 7.712  | 8.687  | 7.366  |  |
|           | TOTAL OBS | 277          | 253    | 279    | 270    | 276    | 269    | 278    | 278    | 268    | 277    | 267    | 277    | 3289   |  |
| 10        | MEAN      | 1019.0       | 1019.3 | 1016.8 | 1017.0 | 1015.5 | 1016.9 | 1017.4 | 1019.2 | 1019.0 | 1019.7 | 1019.6 | 1019.0 | 1018.2 |  |
|           | S. D.     | 9.647        | 9.363  | 9.238  | 8.324  | 8.686  | 8.738  | 4.488  | 3.968  | 5.257  | 7.274  | 7.786  | 8.878  | 7.498  |  |
|           | TOTAL OBS | 275          | 244    | 273    | 265    | 267    | 258    | 273    | 271    | 258    | 275    | 267    | 273    | 3199   |  |
| 13        | MEAN      | 1017.7       | 1018.8 | 1016.1 | 1016.3 | 1015.0 | 1016.0 | 1016.9 | 1018.5 | 1018.4 | 1018.6 | 1018.3 | 1017.7 | 1017.5 |  |
|           | S. D.     | 9.473        | 9.406  | 8.783  | 8.085  | 8.372  | 8.506  | 4.380  | 3.805  | 4.985  | 7.084  | 7.577  | 8.881  | 7.282  |  |
|           | TOTAL OBS | 277          | 252    | 278    | 268    | 279    | 270    | 277    | 276    | 269    | 279    | 269    | 279    | 3222   |  |
| 16        | MEAN      | 1017.5       | 1017.8 | 1015.2 | 1015.5 | 1014.2 | 1015.3 | 1016.1 | 1017.6 | 1017.3 | 1018.1 | 1017.8 | 1017.5 | 1016.6 |  |
|           | S. D.     | 9.266        | 9.162  | 8.483  | 7.886  | 8.115  | 8.368  | 4.216  | 3.830  | 4.785  | 6.738  | 7.362  | 8.616  | 7.113  |  |
|           | TOTAL OBS | 270          | 249    | 277    | 266    | 274    | 263    | 272    | 272    | 264    | 275    | 269    | 276    | 3222   |  |
| 19        | MEAN      | 1018.4       | 1018.7 | 1016.0 | 1015.9 | 1014.4 | 1015.2 | 1016.0 | 1017.8 | 1017.7 | 1018.7 | 1018.7 | 1018.3 | 1017.1 |  |
|           | S. D.     | 9.126        | 9.084  | 7.894  | 7.661  | 8.078  | 8.233  | 4.174  | 3.719  | 4.793  | 6.712  | 7.330  | 8.699  | 7.005  |  |
|           | TOTAL OBS | 278          | 252    | 278    | 267    | 277    | 266    | 278    | 276    | 270    | 278    | 267    | 277    | 3246   |  |
| 22        | MEAN      | 1018.6       | 1019.8 | 1016.4 | 1016.6 | 1014.8 | 1016.0 | 1016.7 | 1018.3 | 1018.2 | 1019.8 | 1018.5 | 1018.3 | 1017.5 |  |
|           | S. D.     | 9.247        | 8.986  | 7.848  | 7.767  | 8.081  | 8.216  | 3.939  | 3.734  | 4.908  | 6.887  | 7.459  | 8.697  | 7.068  |  |
|           | TOTAL OBS | 276          | 249    | 273    | 269    | 256    | 239    | 248    | 245    | 251    | 275    | 264    | 271    | 3107   |  |
| ALL HOURS | MEAN      | 1018.1       | 1018.6 | 1016.1 | 1016.3 | 1014.8 | 1015.8 | 1016.6 | 1018.2 | 1018.2 | 1018.7 | 1018.5 | 1018.1 | 1017.8 |  |
|           | S. D.     | 9.393        | 9.082  | 8.485  | 8.028  | 8.398  | 8.484  | 4.261  | 3.982  | 5.039  | 6.942  | 7.540  | 8.731  | 7.235  |  |
|           | TOTAL OBS | 2203         | 1997   | 2203   | 2131   | 2161   | 2051   | 2110   | 2115   | 2092   | 2204   | 2127   | 2200   | 25504  |  |

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